



DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO

GOVERNOR

MIKE D. McDANIEL, Ph.D.

SECRETARY

CERTIFIED MAIL

-RETURN RECEIPT REQUEST

File No.: LA0007129

AI No.: 2455 Activity No.: PER20040003

Mr. Dennis C. Fec, Environmental Manager
Georgia Gulf Chemicals & Vinyls, LLC
Georgia Gulf - Plaquemine
Post Office Box 629
Plaquemine, LA 70765-0629

RE: Draft Louisiana Pollutant Discharge Elimination System (LPDES) permit to discharge treated process wastewater and process area stormwater from the Phenol, PVC, VCM, Air Separation, Caustic/Chlorine Utilities Area, and COGEN Plants, non-process area stormwater, operations and maintenance wash waters, utility wastewater, and miscellaneous discharges including but not limited to reuse/recycle wastewater, well flush water, fire pond water, reverse osmosis reject wastewater, and demineralizer wastewater to the Mississippi River (Outfall 002), firewater to the Mississippi River (Proposed Outfall 009), stormwater and utility water to Bayou LaButte (Outfalls 004-007), and car wash wastewater to Bayou LaButte (Outfall 008) from an existing organic and inorganic chemical manufacturer located three miles east of the City of Plaquemine on State Highway 405, at 26100 River Road, Iberville Parish.

Dear Mr. Fec:

The Department of Environmental Quality proposes to reissue an LPDES permit with the effluent limitations, monitoring requirements, and special conditions listed in the attached DRAFT PERMIT. Please note that this is a DRAFT PERMIT only and as such does not grant any authorization to discharge. Authorization to discharge will only be granted after all requirements described herein are satisfied and by the subsequent issuance of a FINAL PERMIT. Upon the effective date of the FINAL PERMIT, the FINAL PERMIT shall replace the previously effective State (LPDES) permit.

Upon issuance of a final permit, monitoring results should be reported on a Discharge Monitoring Report (DMR) form per the schedule specified. Copies to be submitted to the regional office should be sent to the Capital Regional Office, Office of Environmental Compliance, Post Office Box 4312, Baton Rouge, Louisiana 70821-4312.

This Office will publish the enclosed public notice one time in a local newspaper(s) of general circulation, and the Office of Environmental Services Public Notice Mailing List. In accordance with LAC 33:IX.6521.A, the applicant shall receive and is responsible for paying the invoice(s) from the above mentioned newspaper(s). LAC 33:IX.6521.A states: "...The costs of publication shall be borne by the applicant."

ENVIRONMENTAL SERVICES

: PO BOX 4313, BATON ROUGE, LA 70821-4313

P:225-219-3181 F:225-219-3309

WWW.DEQ.LOUISIANA.GOV

The invoice, fee rating sheets, and a copy of the fee regulations will be sent under a separate cover letter as applicable. A copy of the entire Louisiana Water Quality Regulations may be obtained from the DEQ Office of Environmental Assessment, Post Office Box 4314, Baton Rouge, Louisiana 70821-4314, (225) 219-3236.

Pursuant to LAC 33.IX.1309.I, LAC 33.IX.6509.A.1 and LAC 33.I.1701, you must pay any outstanding fees to the Department. Therefore, you are encouraged to verify your facility's fee status by contacting LDEQ's Office of Management and Finance, Financial Services Division at (225) 219-3863. Failure to pay in the manner and time prescribed could result in applicable enforcement actions as prescribed in the Environmental Quality Act, including, but not limited to revocation or suspension of the applicable permit, and/or assessment of a civil penalty against you.

Should you have any questions concerning any part of the DRAFT PERMIT, public notice requirements, or fee, please feel free to contact Jenniffer Sheppard, Office of Environmental Services, at the address on the preceding page, telephone (225) 219-3135. All future correspondence regarding this permit shall use the Agency Interest (AI) number 2455 and LPDES permit number LA0007129.

Sincerely,



Jesse Chang
Environmental Scientist Manager
Industrial Water Permits

jls

Attachments

ec: Melissa Reboul
Water and Waste Permits Division

Scott Guilliams
Water and Waste Permits Division

Ms. Gayle Denino
Office of Management & Finance

Permit Compliance Unit
Office of Environmental Compliance

Jenniffer Sheppard
Water and Waste Permits Division

cc: IO-W File

Public Notice Scheduled for Publication

The notice associated with the following:

**Re: Request for Public Comment on a Draft Water Discharge Permit
Georgia Gulf Chemicals and Vinyls, LLC – Plaquemine Facility
Plaquemine, Iberville Parish
AI 2455, Permit No. LA0007129, Activity No. PER20040003**

is scheduled to publish in the following paper (s)

| Newspaper(s) | Scheduled Publication Date* |
|------------------------------------|-----------------------------|
| "The Post/South" of Plaquemine, LA | Thursday, April 13, 2006 |
| | |
| | |
| | |

In accordance with LAC 33:IX.6521.A, the applicant is responsible for payment of all costs of publication. Newspaper will bill applicant directly. Questions regarding publication or payment may be directed to:

DEQ Office of Environmental Services, Public Participation Group Staff:

Name: Brian Smith

Phone: (225) 219-3279

Email: brian.smith@la.gov

Comments:

***Actual date of publication is pending confirmation of publication by newspaper(s)**

PUBLIC NOTICE
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)
GEORGIA GULF CHEMICALS & VINYLs, LLC
GEORGIA GULF - PLAQUEMINE FACILITY
DRAFT WATER DISCHARGE PERMIT

The LDEQ, Office of Environmental Services, is accepting written comments on a draft Louisiana Pollutant Discharge Elimination System (LPDES) permit prepared for Georgia Gulf Chemicals & Vinyls, Georgia Gulf - Plaquemine Facility, P.O. Box 629, Plaquemine, LA 70765-0629. **The facility is located three miles east of the City of Plaquemine on State Highway 405, at 26100 River Road, Iberville Parish.** Upon the effective date of the final permit, the LPDES permit shall replace the previously issued State (LPDES) permit.

The principal discharge from this existing source is made into the Mississippi River (Outfall 002 and Proposed Outfall 009) and Bayou LaButte (Outfalls 004-008), waters of the state classified for primary contact recreation, secondary contact recreation, fish and wildlife propagation, and drinking water supply (Mississippi River only). Under the SIC Codes 2821, 2812, and 2865, the applicant proposes to discharge treated process wastewater and process area stormwater from the Phenol, PVC, VCM, Air Separation, Caustic/Chlorine Utilities Area, and COGEN Plants, non-process area stormwater, operations and maintenance wash waters, utility wastewater, and miscellaneous discharges including but not limited to reuse/recycle wastewater, well flush water, fire pond water, reverse osmosis reject wastewater, and demineralizer wastewater to the Mississippi River (Outfall 002), firewater to the Mississippi River (Proposed Outfall 009), stormwater and utility water to Bayou LaButte (Outfalls 004-007), and car wash wastewater to Bayou LaButte (Outfall 008) from an existing organic and inorganic chemical manufacturer.

During the preparation of this permit, it has been determined that the discharge will have no adverse impact on the existing uses of the receiving waterbody. As with any discharge, however, some change in existing water quality may occur.

Written comments, written requests for a public hearing or written requests for notification of the final decision regarding this permit action may be submitted to Ms. Soumaya Ghosn at LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. **Written comments and/or written requests must be received by 12:30 p.m., Thursday, May 18, 2006.** Written comments will be considered prior to a final permit decision.

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The application, draft permit and fact sheet are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5th Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays).

Inquiries or requests for additional information regarding this permit action should be directed to Jenniffer Sheppard, LDEQ, Water & Waste Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-3135.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at maillistrequest@ldeq.org or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

Permit public notices including electronic access to the draft permit and fact sheet can be viewed at the LDEQ permits public notice webpage at www.deq.state.la.us/news/PubNotice/ and general information related to the public participation in permitting activities can be viewed at www.deq.louisiana.gov/portal/tabid/2198/Default.aspx.

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at http://www.state.la.us/ldbc/listservpage/ldeq_pn_listserv.htm.

All correspondence should specify AI Number 2455, Permit Number LA0007129, and Activity Number PER20040003.

Publication date: April 13, 2006.

DRAFT



PERMIT NUMBER
LA0007129
AI No.: 2455

OFFICE OF ENVIRONMENTAL SERVICES
Water Discharge Permit

Pursuant to the Clean Water Act, as amended (33 U.S.C. 1251 et seq.), and the Louisiana Environmental Quality Act, as amended (La. R. S. 30:2001 et seq.), rules and regulations effective or promulgated under the authority of said Acts, and in reliance on statements and representations heretofore made in the application, a Louisiana Pollutant Discharge Elimination System permit is issued authorizing

Georgia Gulf Chemicals & Vinyls, LLC
Georgia Gulf - Plaquemine
Post Office Box 629
Plaquemine, LA 70765-0629

Type Facility: Organic and inorganic chemical manufacturer

Location: Three miles east of the City of Plaquemine on State Highway 405, at 26100 River Road
Iberville Parish

Receiving Waters: Mississippi River (Outfall 002 and 009) and Bayou LaButte via local drainage (Outfalls 004, 005, 006, 007, and 008)

to discharge in accordance with effluent limitations, monitoring requirements, and other conditions set forth in Parts I, II, and III attached hereto.

This permit shall become effective on _____

This permit and the authorization to discharge shall expire five (5) years from the effective date of the permit.

Issued on _____

Chuck Carr Brown, Ph.D.
Assistant Secretary

DRAFT

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning the effective date and lasting through the expiration date the permittee is authorized to discharge from:

Outfall 002, the continuous discharge of the combined effluents from Internal Outfalls 102, 202, 302, and 402. (Note: Outfall 402 does not discharge directly to Outfall 002. Once monitored, water from Outfall 402 becomes Utility Water, which is used throughout the facility and may be discharged through any outfall) (estimated flow is 7.868 MGD, Max 30 Day).

Such discharges shall be limited and monitored by the permittee as specified below:

| <u>Effluent Characteristic</u> | <u>Discharge Limitations</u> | <u>Other Units</u> | | | | <u>Monitoring Requirements</u> | |
|--|------------------------------|--------------------------|---------------|----------------------------|-----------------|--------------------------------|------------------|
| | | (lbs/day, UNLESS STATED) | | (ug/L, UNLESS STATED) | | Measurement | Sample |
| <u>CONVENTIONAL AND NONCONVENTIONAL</u> | STORET Code | Monthly Average | Daily Maximum | Monthly Average | Daily Maximum | Frequency | Type |
| Flow-MGD | 50050 | Report | Report | --- | --- | Continuous | Recorder |
| pH Range Excursions (Continuous Monitoring), Number of Events >60 Minutes | 82581 | --- | 0(*1) | --- | --- | Continuous | Recorder |
| pH Range Excursions (Continuous Monitoring), Monthly Total Accumulated Time in Minutes | 82582 | --- | 446(*1) | --- | --- | Continuous | Recorder |
| pH Minimum/Maximum Values (Standard Units) | 00400 | --- | --- | Report (Min) | Report (Max) | Continuous | Recorder |
| Temperature (°F) | 00011 | --- | --- | Report | Report | Continuous | Recorder |
| Oil & Grease | 03582 | --- | --- | 10 | 15 | 1/week | Grab |
| <u>BASE NEUTRAL COMPOUNDS(*2)</u> | | | | | | | |
| Hexachlorobenzene | 39700 | 0.24 | 0.56 | --- | --- | 1/year | 24-hr. Composite |
| <u>WHOLE EFFLUENT (ACUTE)</u> | | | | | | | |
| <u>TOXICITY TESTING (*3)(*5)</u> | | <u>STORET Code (*4)</u> | | | | | |
| | | | | (Percent %, UNLESS STATED) | | Measurement | Sample |
| | | | | Monthly Avg | 48-Hour | Frequency | Type |
| | | | | Minimum | Minimum | | |
| NOEC, Pass/Fail [0/1], Lethality, Static Renewal, 48-Hour Acute, <u>Pimephales promelas</u> | TEM6C | --- | --- | Report | Report | 1/year | 24-hr. Composite |
| NOEC, Value [%], Lethality, Static Renewal, 48-Hour Acute, <u>Pimephales promelas</u> | TOM6C | --- | --- | Report | Report | 1/year | 24-hr. Composite |
| NOEC, Value [%], Coefficient of Variation, Static Renewal, 48-Hour Acute, <u>Pimephales promelas</u> | TQM6C | --- | --- | Report | Report | 1/year | 24-hr. Composite |

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall 002 continued)

| <u>Effluent Characteristic</u> | <u>Discharge Limitations</u> | <u>Monitoring Requirements</u> | | | |
|--|------------------------------|--------------------------------|---------|-------------|------------------|
| <u>WHOLE EFFLUENT (ACUTE)</u> | | (Percent %, UNLESS STATED) | | | |
| <u>TOXICITY TESTING (*3)(*5)</u> STORET | | Monthly Avg | 48-Hour | Measurement | Sample |
| Code (*4) | | Minimum | Minimum | Frequency | Type |
| NOEC, Pass/Fail [0/1], TEM3D --- --- | | Report | Report | 1/year | 24-hr. Composite |
| Lethality, Static Renewal, 48-Hour Acute, <u>Daphnia pulex</u> | | | | | |
| NOEC, Value [%], TOM3D --- --- | | Report | Report | 1/year | 24-hr. Composite |
| Lethality, Static Renewal, 48-Hour Acute, <u>Daphnia pulex</u> | | | | | |
| NOEC, Value [%], TQM3D --- --- | | Report | Report | 1/year | 24-hr. Composite |
| Coefficient of Variation, Static Renewal, 48-Hour Acute, <u>Daphnia pulex</u> | | | | | |

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Outfall 002, after the mixing points of internal Outfall 102, 202, and 302 prior discharge into the Mississippi River.

FOOTNOTE(S):

- (*1) The pH shall be within the range of 6.0 - 9.0 standard units at all times subject to the continuous monitoring pH range excursion provisions at Part II.I.
- (*2) See Part II.J.
- (*3) Reporting outfall will be 002. Results shall be reported on DMR as Outfall TX2.
- (*4) Given test method or other, as approved at 40 CFR part 136.
- (*5) See Part II.Q.

PART I

Page 4 of 18

Permit No. Draft LA0007129

AI No. 2455

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

During the period beginning the effective date and lasting through the expiration date the permittee is authorized to discharge from:

Internal Outfall 102, the batch internal discharge from combined inorganic treatment (pH control) system outfall to final Outfall 002. Wastewater sources through this discharge outfall include: C/C process, diaphragm cell renewal, operation and maintenance cleaning waters, utility water, turnaround washwaters, tank truck/railcar loading sump waters, miscellaneous vehicle washwaters, hydro test waters from piping and equipment, tank washwaters, some lab sink and floor drain wastewater, potable water, firewater, boiler blowdowns, steam condensates, cooling tower blowdowns, and both process and non-process area stormwater, miscellaneous wastewaters (includes any source of wastewater not otherwise listed originating from within a unit, resulting from process activities), previously monitored discharges from Internal Outfall 402, and as an alternate routing wastewaters from the regeneration of demineralizer resins, R.O. reject water, and water well flushes (estimate flow is 1.535 MGD).

Such discharges shall be limited and monitored by the permittee as specified below:

| <u>Effluent Characteristic</u> | | <u>Discharge Limitations</u> | | <u>Other Units</u> | | <u>Monitoring Requirements</u> | |
|---|-------------|------------------------------|-----------------------|--------------------------|-----------------------|--------------------------------|------------------|
| | | (lbs/day, UNLESS STATED) | (mg/L, UNLESS STATED) | (lbs/day, UNLESS STATED) | (mg/L, UNLESS STATED) | | |
| <u>CONVENTIONAL AND NONCONVENTIONAL</u> | STORET Code | Monthly Average | Daily Maximum | Monthly Average | Daily Maximum | Measurement Frequency(*2) | Sample Type |
| Flow-MGD | 50050 | Report | Report | --- | --- | Continuous | Recorder |
| COD | 00340 | Report | Report | Report | Report | 3/week | 24-hr. Composite |
| TSS | 00530 | 1375 | 2966 | --- | --- | 1/week | 24-hr. Composite |
| TRC | 50060 | 21.3 | 35.0 | --- | --- | 3/week | Grab |
| <u>METALS AND CYANIDE(*1)</u> | | | | | | | |
| Total Copper | 01042 | 13.21 | 32.35 | --- | --- | 2/month | 24-hr. Composite |
| Total Lead | 01051 | 6.47 | 15.91 | --- | --- | 1/month | 24-hr. Composite |
| Total Nickel | 01067 | 9.98 | 26.15 | --- | --- | 1/month | 24-hr. Composite |

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Internal Outfall 102, after discharge from the pH control system prior to mixing with any other wastewater of Outfall 002.

FOOTNOTE(S):

(*1) See Part II.J.

(*2) When Discharging

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

During the period beginning the effective date and lasting through the expiration date the permittee is authorized to discharge from:

Internal Outfall 202, the continuous discharge of combined wastewaters from the biotreatment system. Wastewater sources to the biotreatment system include: VCM process, VCM process stripper waters, VCM check basin waters, VCM process area stormwater, VCM process area drainage strippers, storage tank vent scrubber waters, shipping area sumps and scrubber waters, sanitary sumps from all facility areas, PVC process, PVC process stripper waters, PVC process area stormwater, phenol/acetone process, phenol/acetone process wastewater strippers, phenol/acetone gravity separator waters, phenol/acetone wastewater decanter waters, marine loading vapor recovery waters, tank truck/railcar loading sump waters, stormwater contacting the Old West Ditch, former methanol process area stormwater, boiler blowdown, firewater, some laboratory sink and floor drain wastewater, steam condensate, utility water, operation and maintenance cleaning waters, recovered groundwater from monitoring/recovery wells, turnaround wash waters, hydrotest waters from piping and equipment, tank washwaters, East Ditch system optionally routed waters, belt filter press filtrate, water from the sludge digestion tank area, previously monitored discharges from Internal Outfall 402, and miscellaneous wastewaters (includes any source of wastewater not otherwise listed originating from within a unit, resulting from process activities) (estimate flow is 1.344 MGD).

Such discharges shall be limited and monitored by the permittee as specified below:

| <u>Effluent Characteristic</u> | <u>Discharge Limitations</u> | <u>Other Units</u> | | | | <u>Monitoring Requirements</u> | |
|---|------------------------------|--------------------------|---------------|-----------------------|---------------|--------------------------------|------------------|
| | | (lbs/day, UNLESS STATED) | | (ug/L, UNLESS STATED) | | Measurement | Sample |
| <u>CONVENTIONAL AND NONCONVENTIONAL</u> | STORET Code | Monthly Average | Daily Maximum | Monthly Average | Daily Maximum | Frequency | Type |
| Flow-MGD | 50050 | Report | Report | --- | --- | Continuous | Recorder |
| Temperature (°F) | 00011 | --- | --- | Report | Report | Continuous | Recorder |
| BOD ₅ | 00310 | 280 | 719 | --- | --- | 2/week | 24-hr. Composite |
| TSS | 00530 | 432 | 1337 | --- | --- | 3/week | 24-hr. Composite |
| TOC | 00680 | 2226 | 6821 | --- | --- | 1/week | 24-hr. Composite |
| TRC | 50060 | 20.0 | 33.0 | --- | --- | 1/month | Grab |
| <u>METALS AND CYANIDE(*1)</u> | | | | | | | |
| Total Copper | 01042 | 2.64 | 6.15 | --- | --- | 1/month | 24-hr. Composite |
| Total Nickel | 01067 | 3.07 | 7.24 | --- | --- | 1/month | 24-hr. Composite |
| Total Zinc | 01092 | 1.91 | 4.75 | --- | --- | 1/week | 24-hr. Composite |
| <u>VOLATILE COMPOUNDS(*1)</u> | | | | | | | |
| Acrylonitrile | 34215 | 0.84 | 2.11 | --- | --- | 1/year | 24-hr. Composite |
| Benzene | 34030 | 0.32 | 1.18 | --- | --- | 1/year | 24-hr. Composite |
| Carbon Tetrachloride | 32102 | 0.16 | 0.33 | --- | --- | 1/week | 24-hr. Composite |
| Chlorobenzene | 34301 | 0.13 | 0.24 | --- | --- | 1/year | 24-hr. Composite |
| Chloroethane | 34311 | 0.91 | 2.33 | --- | --- | 1/week | 24-hr. Composite |
| Chloroform | 32106 | 0.18 | 0.40 | --- | --- | 1/week | 24-hr. Composite |
| 1,1-Dichloroethane | 34496 | 0.19 | 0.51 | --- | --- | 1/week | 24-hr. Composite |
| 1,2-Dichloroethane | 34531 | 0.59 | 1.84 | --- | --- | 1/week | 24-hr. Composite |
| 1,1-Dichloroethylene | 34501 | 0.14 | 0.22 | --- | --- | 1/week | 24-hr. Composite |
| 1,2-trans-Dichloroethylene | 34546 | 0.18 | 0.47 | --- | --- | 1/week | 24-hr. Composite |

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Internal Outfall 202 continued)

| Effluent Characteristic | Discharge Limitations | | | | | Monitoring Requirements | |
|-----------------------------------|-----------------------|--------------------------|------------------|--------------------------------------|------------------|--------------------------|------------------|
| | STORET Code | (lbs/day, UNLESS STATED) | | Other Units (ug/L, UNLESS STATED) | | Measurement Frequency | Sample Type |
| | | Monthly Average | Daily Maximum | Monthly Average | Daily Maximum | | |
| 1,2-Dichloropropane | 34541 | 1.33 | 2.00 | --- | --- | 1/week | 24-hr. Composite |
| 1,3-Dichloropropylene | 51044 | 0.25 | 0.38 | --- | --- | 1/week | 24-hr. Composite |
| Ethylbenzene | 34371 | 0.28 | 0.94 | --- | --- | 1/year | 24-hr. Composite |
| Methyl Chloride | 34418 | 0.75 | 1.65 | --- | --- | 1/week | 24-hr. Composite |
| Methylene Chloride | 34423 | 0.35 | 0.78 | --- | --- | 1/week | 24-hr. Composite |
| Tetrachloroethylene | 34475 | 0.19 | 0.49 | --- | --- | 1/week | 24-hr. Composite |
| Toluene | 34010 | 0.23 | 0.70 | --- | --- | 1/year | 24-hr. Composite |
| 1,1,1-Trichloroethane | 34506 | 0.18 | 0.47 | --- | --- | 1/week | 24-hr. Composite |
| 1,1,2-Trichloroethane | 34511 | 0.18 | 0.47 | --- | --- | 1/week | 24-hr. Composite |
| Trichloroethylene | 39180 | 0.18 | 0.47 | --- | --- | 1/week | 24-hr. Composite |
| Vinyl Chloride | 39175 | 0.91 | 2.33 | --- | --- | 1/week | 24-hr. Composite |
| <u>ACID COMPOUNDS(*1)</u> | | | | | | | |
| 2-Chlorophenol | 34586 | 0.27 | 0.85 | --- | --- | 1/year | 24-hr. Composite |
| 2,4-Dichlorophenol | 34601 | 0.34 | 0.98 | --- | --- | 1/year | 24-hr. Composite |
| 2,4-Dimethylphenol | 34606 | 0.16 | 0.31 | --- | --- | 1/year | 24-hr. Composite |
| 4,6-Dinitro-o-Cresol | 34657 | 0.68 | 2.41 | --- | --- | 1/year | 24-hr. Composite |
| 2,4-Dinitrophenol | 34616 | 0.62 | 1.07 | --- | --- | 1/year | 24-hr. Composite |
| 2-Nitrophenol | 34591 | 0.36 | 0.60 | --- | --- | 1/year | 24-hr. Composite |
| 4-Nitrophenol | 34646 | 0.63 | 1.08 | --- | --- | 1/year | 24-hr. Composite |
| Phenol | 34694 | 0.13 | 0.23 | --- | --- | 3/week | 24-hr. Composite |
| <u>BASE NEUTRAL COMPOUNDS(*1)</u> | | | | | | | |
| Acenaphthene | 34205 | 0.19 | 0.51 | --- | --- | 1/year | 24-hr. Composite |
| Acenaphthylene | 34200 | 0.19 | 0.51 | --- | --- | 1/year | 24-hr. Composite |
| Anthracene | 34220 | 0.19 | 0.51 | --- | --- | 1/year | 24-hr. Composite |
| Benzo(a)anthracene | 34526 | 0.19 | 0.51 | --- | --- | 1/year | 24-hr. Composite |
| Benzo(a)pyrene | 34247 | 0.20 | 0.53 | --- | --- | 1/year | 24-hr. Composite |
| 3,4-Benzofluoranthene | 34230 | 0.20 | 0.53 | --- | --- | 1/year | 24-hr. Composite |
| Benzo(k)fluoranthene | 34242 | 0.19 | 0.51 | --- | --- | 1/year | 24-hr. Composite |
| Bis(2-ethylhexyl)phthalate | 39100 | 0.90 | 2.43 | --- | --- | 1/year | 24-hr. Composite |
| Chrysene | 34320 | 0.19 | 0.51 | --- | --- | 1/year | 24-hr. Composite |
| 1,2-Dichlorobenzene | 34536 | 0.67 | 1.42 | --- | --- | 1/year | 24-hr. Composite |
| 1,3-Dichlorobenzene | 34566 | 0.27 | 0.38 | --- | --- | 1/year | 24-hr. Composite |
| 1,4-Dichlorobenzene | 34571 | 0.13 | 0.24 | --- | --- | 1/year | 24-hr. Composite |
| Diethyl phthalate | 34336 | 0.71 | 1.77 | --- | --- | 1/year | 24-hr. Composite |
| Dimethyl phthalate | 34341 | 0.17 | 0.41 | --- | --- | 1/year | 24-hr. Composite |
| Di-n-butyl phthalate | 39110 | 0.24 | 0.50 | --- | --- | 1/year | 24-hr. Composite |
| 2,4-Dinitrotoluene | 34611 | 0.98 | 2.48 | --- | --- | 1/year | 24-hr. Composite |
| 2,6-Dinitrotoluene | 34626 | 2.22 | 5.58 | --- | --- | 1/year | 24-hr. Composite |
| Fluoranthene | 34376 | 0.22 | 0.59 | --- | --- | 1/year | 24-hr. Composite |

PART 1

Page 7 of 18

Permit No. Draft LA0007129

AI No. 2455

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Internal Outfall 202 continued)

| Effluent Characteristic | STORET Code | Discharge Limitations | | | | Monitoring Requirements | |
|-------------------------|-------------|--------------------------|---------------|-----------------------------------|---------------|-------------------------|------------------|
| | | (lbs/day, UNLESS STATED) | | Other Units (ug/L, UNLESS STATED) | | Measurement Frequency | Sample Type |
| | | Monthly Average | Daily Maximum | Monthly Average | Daily Maximum | | |
| Fluorene | 34381 | 0.19 | 0.51 | --- | --- | 1/year | 24-hr. Composite |
| Hexachlorobenzene | 39700 | 0.13 | 0.24 | --- | --- | 1/year | 24-hr. Composite |
| Hexachlorobutadiene | 34391 | 0.17 | 0.43 | --- | --- | 1/year | 24-hr. Composite |
| Hexachloroethane | 34396 | 0.18 | 0.47 | --- | --- | 1/year | 24-hr. Composite |
| Naphthalene | 34696 | 0.19 | 0.51 | --- | --- | 1/year | 24-hr. Composite |
| Nitrobenzene | 34447 | 0.24 | 0.59 | --- | --- | 1/year | 24-hr. Composite |
| Phenanthrene | 34461 | 0.19 | 0.51 | --- | --- | 1/year | 24-hr. Composite |
| Pyrene | 34469 | 0.22 | 0.58 | --- | --- | 1/year | 24-hr. Composite |
| 1,2,4-Trichlorobenzene | 34551 | 0.59 | 1.22 | --- | --- | 1/year | 24-hr. Composite |

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Internal Outfall 202, at the point of discharge from the biological treatment system prior to mixing with any other wastewater of Final Outfall 002.

FOOTNOTE(S):

(*1) See Part II.J.

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

During the period beginning the effective date and lasting through the expiration date the permittee is authorized to discharge from:

Internal Outfall 302, the continuous internal discharge of combined cooling tower blowdown, treated process area stormwater, and non-process area stormwater runoff. Sources of this discharge outfall include: R.O. reject water, cooling tower blowdown from the methanol area, Phenol/Acetone, C/C, PVC, VCM, and air separation units; treated process area stormwater from air separation unit; stormwater retention pond water; former VCM emergency pond water; Old West Ditch area stormwater; neutralized demineralizer regeneration waters from the Utilities Unit; stormwater from secondary containment areas for tanks; stormwater from adjacent areas to the PVC resin off loading area; stormwater from former areas associated with industrial activity and significant materials areas; COGEN Blowdown; utility water and process water from the COGEN Unit; operation and maintenance cleaning waters; utility water; hydrotest waters from piping and equipment; tank washwaters; potable water; firewater; steam condensates; water well flushes; stormwater from the closed Chlorate Unit; and previously monitored discharges from Internal Outfall 402. (estimated flow is 4.989 MGD).

Such discharges shall be limited and monitored by the permittee as specified below:

| <u>Effluent Characteristic</u> | <u>Discharge Limitations</u> | <u>Other Units</u> | | | | <u>Monitoring Requirements</u> | |
|---|------------------------------|--------------------------|---------------|-----------------------|-----------------|--------------------------------|------------------|
| | | (lbs/day, UNLESS STATED) | | (ug/L, UNLESS STATED) | | Measurement | Sample |
| <u>CONVENTIONAL AND NONCONVENTIONAL</u> | STORET Code | Monthly Average | Daily Maximum | Monthly Average | Daily Maximum | Frequency | Type |
| Flow-MGD | 50050 | Report | Report | --- | --- | Continuous | Recorder |
| pH Range Excursions (Continuous Monitoring), Number of Events >60 Minutes | 82581 | --- | 0(*1) | --- | --- | Continuous | Recorder |
| pH Range Excursions (Continuous Monitoring), Monthly Total Accumulated Time in Minutes | 82582 | --- | 446(*1) | --- | --- | Continuous | Recorder |
| pH Minimum/Maximum Values (Standard Units) | 00400 | --- | --- | Report (Min) | Report (Max) | Continuous | Recorder |
| COD | 00340 | --- | --- | --- | 100 | 3/week | 24-hr. Composite |
| Free Available Chlorine | 50064 | --- | --- | 0.2 | 0.5 | 1/day | Grab |
| Chloroform (*2) | 32106 | Report | Report | --- | --- | 3/week | 24-hr. Composite |
| 1,2-Dichloroethane (*2) | 34531 | Report | Report | --- | --- | 3/week | 24-hr. Composite |
| Phenol (*2) | 34694 | Report | Report | --- | --- | 3/week | 24-hr. Composite |
| Vinyl Chloride (*2) | 39175 | Report | Report | --- | --- | 3/week | 24-hr. Composite |

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Internal Outfall 302, at the point of discharge from the sampling port at the East Ditch Sump prior to mixing with any other wastewaters of Final Outfall 002.

PART I

Page 9 of 18

Permit No. Draft LA0007129

AI No. 2455

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Internal Outfall 302 continued)

FOOTNOTE(S):

- (*1) The pH shall be within the range of 6.0 - 9.0 standard units at all times subject to the continuous monitoring pH range excursion provisions at Part II.I.
- (*2) See Part II.N.

PART I

Page 10 of 18

Permit No. Draft LA0007129

AI No. 2455

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

During the period beginning the effective date and lasting through the expiration date the permittee is authorized to discharge from:

Internal Outfall 402, the continuous internal discharge of the plant firewater, utility water system, and East Ditch of combined wastewaters from the PVC treatment system including process wastewaters and process and non-process area stormwater from the PVC unit, stormwater from the PVC resin off loading area, and potable water that has come into contact with process areas (Note: Outfall 402 becomes Utility Water, which is used throughout the facility and wastewater derived from Utility Water may be discharged through any outfall, with except Outfalls 008 and 009) (estimated flow is 1.700 MGD).

Such discharges shall be limited and monitored by the permittee as specified below:

| <u>Effluent Characteristic</u> | <u>Discharge Limitations</u> | <u>Other Units</u> | | | | <u>Monitoring Requirements</u> | |
|---|------------------------------|--------------------------|----------------------|------------------------|----------------------|--------------------------------|------------------|
| | | (lbs/day, UNLESS STATED) | | (ug/L, UNLESS STATED) | | Measurement | Sample |
| <u>CONVENTIONAL AND NONCONVENTIONAL</u> | <u>STORET Code</u> | <u>Monthly Average</u> | <u>Daily Maximum</u> | <u>Monthly Average</u> | <u>Daily Maximum</u> | <u>Frequency</u> | <u>Type</u> |
| Flow-MGD | 50050 | Report | Report | --- | --- | Continuous | Recorder |
| BOD ₅ | 00310 | 340 | 907 | --- | --- | 3/week | 24-hr. Composite |
| TSS | 00530 | 567 | 1843 | --- | --- | 3/week | 24-hr. Composite |
| TOC | 00680 | 2700 | 8610 | --- | --- | 1/day | 24-hr. Composite |
| <u>VOLATILE COMPOUNDS(*1)</u> | | | | | | | |
| Acrylonitrile | 34215 | 1.33 | 3.29 | --- | --- | 1/year | 24-hr. Composite |
| Benzene | 34030 | 0.81 | 1.90 | --- | --- | 1/year | 24-hr. Composite |
| Carbon Tetrachloride | 32102 | 2.01 | 5.39 | --- | --- | 1/year | 24-hr. Composite |
| Chlorobenzene | 34301 | 2.01 | 5.39 | --- | --- | 1/year | 24-hr. Composite |
| Chloroethane | 34311 | 1.56 | 4.18 | --- | --- | 1/year | 24-hr. Composite |
| Chloroform | 32106 | 1.57 | 4.61 | --- | --- | 1/year | 24-hr. Composite |
| 1,1-Dichloroethane | 34496 | 0.31 | 0.84 | --- | --- | 1/year | 24-hr. Composite |
| 1,2-Dichloroethane | 34531 | 2.55 | 8.14 | --- | --- | 1/year | 24-hr. Composite |
| 1,1-Dichloroethylene | 34501 | 0.31 | 0.85 | --- | --- | 1/year | 24-hr. Composite |
| 1,2-trans-Dichloroethylene | 34546 | 0.35 | 0.94 | --- | --- | 1/year | 24-hr. Composite |
| 1,2-Dichloropropane | 34541 | 2.78 | 11.26 | --- | --- | 1/year | 24-hr. Composite |
| 1,3-Dichloropropylene | 51044 | 2.78 | 11.26 | --- | --- | 1/year | 24-hr. Composite |
| Ethylbenzene | 34371 | 2.01 | 5.39 | --- | --- | 1/year | 24-hr. Composite |
| Methyl Chloride | 34418 | 1.56 | 4.18 | --- | --- | 1/year | 24-hr. Composite |
| Methylene Chloride | 34423 | 0.51 | 2.41 | --- | --- | 1/year | 24-hr. Composite |
| Tetrachloroethylene | 34475 | 0.74 | 2.33 | --- | --- | 1/year | 24-hr. Composite |
| Toluene | 34010 | 0.40 | 1.05 | --- | --- | 1/year | 24-hr. Composite |
| 1,1,1-Trichloroethane | 34506 | 0.31 | 0.84 | --- | --- | 1/year | 24-hr. Composite |
| 1,1,2-Trichloroethane | 34511 | 0.45 | 1.80 | --- | --- | 1/year | 24-hr. Composite |
| Trichloroethylene | 39180 | 0.37 | 0.98 | --- | --- | 1/year | 24-hr. Composite |
| Vinyl Chloride | 39175 | 1.38 | 2.44 | --- | --- | 1/week | 24-hr. Composite |

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Internal Outfall 402 continued)

| Effluent Characteristic | Discharge Limitations | | | | Monitoring Requirements | | | | |
|-----------------------------------|-----------------------|---|-------|-----------------|-------------------------|-----------------|------------------|-----------------------|-------------|
| | STORET Code | Other Units (lbs/day, UNLESS STATED) (ug/L, UNLESS STATED) | | Monthly Average | Daily Maximum | Monthly Average | Daily Maximum | Measurement Frequency | Sample Type |
| | | | | | | | | | |
| ACID COMPOUNDS(*1) | | | | | | | | | |
| 2,4-Dimethylphenol | 34606 | 0.27 | 0.67 | --- | --- | 1/year | 24-hr. Composite | | |
| 4,6-Dinitro-o-Cresol | 34657 | 1.11 | 3.93 | --- | --- | 1/year | 24-hr. Composite | | |
| 2,4-Dinitrophenol | 34616 | 17.11 | 60.84 | --- | --- | 1/year | 24-hr. Composite | | |
| 2-Nitrophenol | 34591 | 0.92 | 3.28 | --- | --- | 1/year | 24-hr. Composite | | |
| 4-Nitrophenol | 34646 | 2.30 | 8.17 | --- | --- | 1/year | 24-hr. Composite | | |
| Phenol | 34694 | 0.27 | 0.67 | --- | --- | 1/year | 24-hr. Composite | | |
| BASE NEUTRAL COMPOUNDS(*1) | | | | | | | | | |
| Acenaphthene | 34205 | 0.27 | 0.67 | --- | --- | 1/year | 24-hr. Composite | | |
| Acenaphthylene | 34200 | 0.27 | 0.67 | --- | --- | 1/year | 24-hr. Composite | | |
| Anthracene | 34220 | 0.27 | 0.67 | --- | --- | 1/year | 24-hr. Composite | | |
| Benzo(a)anthracene | 34526 | 0.27 | 0.67 | --- | --- | 1/year | 24-hr. Composite | | |
| Benzo(a)pyrene | 34247 | 0.28 | 0.68 | --- | --- | 1/year | 24-hr. Composite | | |
| 3,4-Benzofluoranthene | 34230 | 0.28 | 0.68 | --- | --- | 1/year | 24-hr. Composite | | |
| Benzo(k)fluoranthene | 34242 | 0.27 | 0.67 | --- | --- | 1/year | 24-hr. Composite | | |
| Bis(2-ethylhexyl)phthalate | 39100 | 1.35 | 3.66 | --- | --- | 1/year | 24-hr. Composite | | |
| Chrysene | 34320 | 0.27 | 0.67 | --- | --- | 1/year | 24-hr. Composite | | |
| 1,2-Dichlorobenzene | 34536 | 2.78 | 11.26 | --- | --- | 1/year | 24-hr. Composite | | |
| 1,3-Dichlorobenzene | 34566 | 2.01 | 5.39 | --- | --- | 1/year | 24-hr. Composite | | |
| 1,4-Dichlorobenzene | 34571 | 2.01 | 5.39 | --- | --- | 1/year | 24-hr. Composite | | |
| Diethyl phthalate | 34336 | 0.65 | 1.60 | --- | --- | 1/year | 24-hr. Composite | | |
| Dimethyl phthalate | 34341 | 0.27 | 0.67 | --- | --- | 1/year | 24-hr. Composite | | |
| Di-n-butyl phthalate | 39110 | 0.28 | 0.61 | --- | --- | 1/year | 24-hr. Composite | | |
| Fluoranthene | 34376 | 0.31 | 0.77 | --- | --- | 1/year | 24-hr. Composite | | |
| Fluorene | 34381 | 0.27 | 0.67 | --- | --- | 1/year | 24-hr. Composite | | |
| Hexachlorobenzene | 39700 | 2.78 | 11.26 | --- | --- | 1/year | 24-hr. Composite | | |
| Hexachlorobutadiene | 34391 | 2.01 | 5.39 | --- | --- | 1/year | 24-hr. Composite | | |
| Hexachloroethane | 34396 | 2.78 | 11.26 | --- | --- | 1/year | 24-hr. Composite | | |
| Naphthalene | 34696 | 0.27 | 0.67 | --- | --- | 1/year | 24-hr. Composite | | |
| Nitrobenzene | 34447 | 31.72 | 90.77 | --- | --- | 1/year | 24-hr. Composite | | |
| Phenanthrene | 34461 | 0.27 | 0.67 | --- | --- | 1/year | 24-hr. Composite | | |
| Pyrene | 34469 | 0.28 | 0.68 | --- | --- | 1/year | 24-hr. Composite | | |
| 1,2,4-Trichlorobenzene | 34551 | 2.78 | 11.26 | --- | --- | 1/year | 24-hr. Composite | | |

PART I

Page 12 of 18

Permit No. Draft LA0007129

AI No. 2455

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Internal Outfall 402 continued)

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Internal Outfall 402, at the point of discharge downstream of the Reuse/Recycle facility between 2nd and 3rd Avenues adjacent to E Street prior to mixing with other wastewater or water.

FOOTNOTE(S):

(*1) See Part II.J.

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

During the period beginning the effective date and lasting through the expiration date the permittee is authorized to discharge from:

Outfall 004, the intermittent discharge of stormwater from a portion of the landfarm area. Sources of this discharge include stormwater from the landfarm area with applied lime and brine precipitate from hardness removal, concrete recycling area, railcar tracks, the adjacent Shintech property. Other sources of this discharge include rinse waters from facility truck washing area, potable water, firewater, and previously monitored discharges from Internal Outfall 402.

Such discharges shall be limited and monitored by the permittee as specified below:

| Effluent Characteristic | STORET Code | Discharge Limitations | | Other Units | | Monitoring Requirements | |
|---|-------------|--------------------------|-----------------------|------------------|------------------|---------------------------|-------------|
| | | (lbs/day, UNLESS STATED) | (μg/L, UNLESS STATED) | | | | |
| | | Monthly Average | Daily Maximum | Monthly Average | Daily Maximum | Measurement Frequency(*1) | Sample Type |
| Flow-MGD | 50050 | Report | Report | --- | --- | 1/quarter | Estimate |
| TOC | 00680 | --- | --- | --- | 50 mg/L | 1/quarter | Grab |
| Oil and Grease | 03582 | --- | --- | --- | 15 mg/L | 1/quarter | Grab |
| TSS | 00530 | --- | --- | Report mg/L | Report mg/L | 1/quarter | Grab |
| pH Minimum/Maximum Values (Standard Units) | 00400 | --- | --- | 6.0(*2) (Min) | 9.0(*2) (Max) | 1/quarter | Grab |
| Total Chromium(*3) | 01034 | --- | --- | Report | Report | 1/quarter | Grab |
| Total Copper(*3) | 01042 | --- | --- | Report | Report | 1/quarter | Grab |
| Total Nickel(*3) | 01067 | --- | --- | Report | Report | 1/quarter | Grab |
| Total Zinc(*3) | 01092 | --- | --- | Report | Report | 1/quarter | Grab |
| Chloroform(*3) | 32106 | --- | --- | Report | Report | 1/6 months | Grab |
| 1,2-Dichloroethane(*3) | 34531 | --- | --- | Report | Report | 1/6 months | Grab |
| Phenol(*3) | 34694 | --- | --- | Report | Report | 1/6 months | Grab |
| Vinyl Chloride(*3) | 39175 | --- | --- | Report | Report | 1/6 months | Grab |

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Outfall 004, at the point of discharge in the southeast corner of the facility, prior to passage under the railroad tracks and combining with waters of the parish drainage system discharging in Bayou LaButte.

FOOTNOTE(S):

(*1) When Discharging.

(*2) The permittee shall report on the Discharge Monitoring Reports both the minimum and maximum instantaneous pH values measured.

(*3) See Part II.N.

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

During the period beginning the effective date and lasting through the expiration date the permittee is authorized to discharge from:

Outfall 005, the intermittent discharge of stormwater from a portion of the landfarm area. Sources of this discharge include stormwater from the landfarm area with applied lime and brine precipitate from hardness removal, concrete recycling area, and railcar tracks. Other sources of this discharge include rinse waters from facility truckwashing areas, potable water, firewater, and previously monitored discharges from Internal Outfall 402.

Such discharges shall be limited and monitored by the permittee as specified below:

| Effluent Characteristic | STORET Code | Discharge Limitations | | | | Monitoring Requirements | |
|--|-------------|--|---------------|-----------------|---------------|-------------------------|-------------|
| | | Other Units | | | | Measurement Frequency | Sample Type |
| | | (lbs/day, UNLESS STATED) (µg/L, UNLESS STATED) | | | | | |
| | | Monthly Average | Daily Maximum | Monthly Average | Daily Maximum | | |
| Flow-MGD | 50050 | Report | Report | --- | --- | 1/quarter | Estimate |
| TOC | 00680 | --- | --- | --- | 50 mg/L | 1/quarter | Grab |
| Oil and Grease | 03582 | --- | --- | --- | 15 mg/L | 1/quarter | Grab |
| TSS(*3) | 00530 | --- | --- | Report mg/L | Report mg/L | 1/quarter | Grab |
| pH Minimum/Maximum Values (Standard Units) | 00400 | --- | --- | 6.0(*2) (Min) | 9.0(*2) (Max) | 1/quarter | Grab |
| Total Chromium(*3) | 01034 | --- | --- | Report | Report | 1/quarter | Grab |
| Total Copper(*3) | 01042 | --- | --- | Report | Report | 1/quarter | Grab |
| Total Nickel(*3) | 01067 | --- | --- | Report | Report | 1/quarter | Grab |
| Total Zinc(*3) | 01092 | --- | --- | Report | Report | 1/quarter | Grab |
| Chloroform(*3) | 32106 | --- | --- | Report | Report | 1/6 months | Grab |
| 1,2-Dichloroethane(*3) | 34531 | --- | --- | Report | Report | 1/6 months | Grab |
| Phenol(*3) | 34694 | --- | --- | Report | Report | 1/6 months | Grab |
| Vinyl Chloride(*3) | 39175 | --- | --- | Report | Report | 1/6 months | Grab |

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Outfall 005, at the point of discharge from the south side of the facility, at the railroad tracks and prior to combining with waters of the parish drainage system discharging in Bayou LaButte.

FOOTNOTE(S):

(*1) When Discharging.

(*2) The permittee shall report on the Discharge Monitoring Reports both the minimum and maximum instantaneous pH values measured.

(*3) See Part II.N.

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

During the period beginning the effective date and lasting through the expiration date the permittee is authorized to discharge from:

Outfall 006, the intermittent discharge of stormwater from a portion of the landfarm area. Sources of this discharge include stormwater from the landfarm area with applied lime and brine precipitate from hardness removal, the contractor parking lot and railcar tracks, non-process area stormwater from the Air Separation Unit, undeveloped areas on the west side of the facility, and from the adjacent Air Liquide facility. Other sources of this discharge includes potable water, firewater, and previously monitored discharges from Internal Outfall 402.

Such discharges shall be limited and monitored by the permittee as specified below:

| <u>Effluent Characteristic</u> | | <u>Discharge Limitations</u> | | | | <u>Monitoring Requirements</u> | |
|--|-------------|--|---------------|-----------------|---------------|--------------------------------|-------------|
| | | | | Other Units | | | |
| | | (lbs/day, UNLESS STATED) (µg/L, UNLESS STATED) | | | | | |
| | STORET Code | Monthly Average | Daily Maximum | Monthly Average | Daily Maximum | Measurement Frequency | Sample Type |
| Flow-MGD | 50050 | Report | Report | --- | --- | 1/quarter | Estimate |
| TOC | 00680 | --- | --- | --- | 50 mg/L | 1/quarter | Grab |
| Oil and Grease | 03582 | --- | --- | --- | 15 mg/L | 1/quarter | Grab |
| TSS(*3) | 00530 | --- | --- | Report mg/L | Report mg/L | 1/quarter | Grab |
| pH Minimum/Maximum Values (Standard Units) | 00400 | --- | --- | 6.0(*2) (Min) | 9.0(*2) (Max) | 1/quarter | Grab |
| Total Chromium(*3) | 01034 | --- | --- | Report | Report | 1/quarter | Grab |
| Total Copper(*3) | 01042 | --- | --- | Report | Report | 1/quarter | Grab |
| Total Nickel(*3) | 01067 | --- | --- | Report | Report | 1/quarter | Grab |
| Total Zinc(*3) | 01092 | --- | --- | Report | Report | 1/quarter | Grab |
| Chloroform(*3) | 32106 | --- | --- | Report | Report | 1/6 months | Grab |
| 1,2-Dichloroethane(*3) | 34531 | --- | --- | Report | Report | 1/6 months | Grab |
| Phenol(*3) | 34694 | --- | --- | Report | Report | 1/6 months | Grab |
| Vinyl Chloride(*3) | 39175 | --- | --- | Report | Report | 1/6 months | Grab |

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Outfall 006, at the point of discharge on the south side of the facility, after the land farm and prior to combining with waters of the parish drainage system discharging in Bayou LaButte.

FOOTNOTE(S):

(*1) When Discharging.

(*2) The permittee shall report on the Discharge Monitoring Reports both the minimum and maximum instantaneous pH values measured.

(*3) See Part II.N.

PART I

Page 16 of 18

Permit No. Draft LA0007129

AI No. 2455

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

During the period beginning the effective date and lasting through the expiration date the permittee is authorized to discharge from:

Outfall 007, the intermittent discharge of stormwater from the north and west portions of the facility. Sources of this discharge include stormwater from the north side of the facility (near the marine loading pipe rack, administrative parking lot, main facility access road, environmental/industrial relations parking lot, waste storage bins and drums area, and inorganic treatment system area), stormwater from the west side of the facility (near PVC parking lot, cemetery, C/C personnel parking lot, finish vinyl product testing area), stormwater impacted by grass/plant cutting from Parish roadside ditch maintenance (which can elevate TSS), and non-process area stormwater from the Air Separation Unit. Other sources of this discharge includes potable water, firewater, and previously monitored discharges from Internal Outfall 402.

Such discharges shall be limited and monitored by the permittee as specified below:

| <u>Effluent Characteristic</u> | | <u>Discharge Limitations</u> | | <u>Monitoring Requirements</u> | | | |
|--------------------------------|-------------|------------------------------|---------------|--------------------------------|---------------|---------------------------|-------------|
| | | Other Units | | | | | |
| | | (lbs/day, UNLESS STATED) | | (mg/L, UNLESS STATED) | | | |
| | STORET Code | Monthly Average | Daily Maximum | Monthly Average | Daily Maximum | Measurement Frequency(*1) | Sample Type |
| Flow-MGD | 50050 | Report | Report | --- | --- | 1/quarter | Estimate |
| TOC | 00680 | --- | --- | --- | 50 | 1/quarter | Grab |
| Oil and Grease | 03582 | --- | --- | --- | 15 | 1/quarter | Grab |
| pH Minimum/Maximum Values | 00400 | --- | --- | 6.0 (*2) | 9.0 (*2) | 1/quarter | Grab |
| (Standard Units) | | | | (Min) | (Max) | | |

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Outfall 007, at a point in the ditch on the west side of the facility near the west side of the Air Separation Unit prior to combining with waters of the Parish drainage system discharging into Bayou LaButte.

FOOTNOTE(S):

(*1) When discharging.

(*2) The permittee shall report on the Discharge Monitoring Reports both the minimum and maximum instantaneous pH values measured.

PART I

Page 17 of 18

Permit No. Draft LA0007129

AI No. 2455

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

During the period beginning the effective date and lasting through the expiration date the permittee is authorized to discharge from:

Outfall 008, the intermittent discharge of car wash wastewater (*1).

Such discharges shall be limited and monitored by the permittee as specified below:

| <u>Effluent Characteristic</u> | <u>Discharge Limitations</u> | <u>Other Units</u> | | | | <u>Monitoring Requirements</u> | |
|---|------------------------------|--------------------------|-----------------|-----------------------|-------------------|--------------------------------|-------------|
| | | (lbs/day, UNLESS STATED) | | (mg/L, UNLESS STATED) | | Measurement Frequency(*2) | Sample Type |
| STORET Code | Monthly Average | Daily Maximum | Monthly Average | Daily Maximum | | | |
| Flow-MGD | 50050 | Report | Report | --- | --- | 1/quarter | Estimate |
| COD | 00340 | --- | --- | --- | 300 | 1/quarter | Grab |
| TSS | 00530 | --- | --- | --- | 45 | 1/quarter | Grab |
| Oil and Grease | 03582 | --- | --- | --- | 15 | 1/quarter | Grab |
| pH Minimum/Maximum Values (Standard Units) | 00400 | --- | --- | 6.0 (*3) (Min) | 9.0 (*3) (Max) | 1/quarter | Grab |

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Outfall 008, at a point in the ditch in the northwest area of the facility adjacent to the pH basin prior to combining with any other waters.

FOOTNOTE(S):

(*1) There shall be no discharge of soaps or detergents from car wash activities.

(*2) When discharging.

(*3) The permittee shall report on the Discharge Monitoring Reports both the minimum and maximum instantaneous pH values measured.

PART I

Page 18 of 18

Permit No. Draft LA0007129

AI No. 2455

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

During the period beginning the effective date and lasting through the expiration date the permittee is authorized to discharge from:

Outfall 009, the intermittent discharge of firewater and river water at the dock area(*2).

Such discharges shall be limited and monitored by the permittee as specified below:

| <u>Effluent Characteristic</u> | <u>Discharge Limitations</u> | <u>Other Units</u> | | | | <u>Monitoring Requirements</u> | |
|--------------------------------|------------------------------|--|--------------------|------------------|-------------|--------------------------------|----------------|
| | | (lbs/day, UNLESS STATED) (mg/L, UNLESS STATED) | | | | Measurement Frequency(*1) | Sample Type |
| STORET Code | Monthly Average | Daily Maximum | Monthly Average | Daily Maximum | | | |
| Flow-MGD | 50050 | Report | Report | --- | --- | 1/Discharge Event | Estimate |
| Oil and Grease (Visual) | 84066 | --- | --- | --- | No Presence | 1/Discharge Event | Observation |

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Outfall 009, at a point of discharge from the docks into the Mississippi River.

FOOTNOTE(S):

(*1) When discharging.

(*2) See Part II.O.

PART II

OTHER REQUIREMENTS

In addition to the standard conditions required in all permits and listed in Part III, the Office has established the following additional requirements in accordance with the Louisiana Water Quality Regulations.

- A. The Department of Environmental Quality reserves the right to impose more stringent discharge limitations or additional restrictions, if necessary, to maintain the water quality integrity and the designated uses of the receiving water bodies.
- B. This permit does not in any way authorize the permittee to discharge a pollutant not listed or quantified in the application or limited or monitored for in the permit.
- C. Authorization to discharge pursuant to the conditions of this permit does not relieve the permittee of any liability for damages to state waters or private property. For discharges to private land, this permit does not relieve the permittee from obtaining proper approval from the landowner for appropriate easements and rights of way.
- D. For definitions of monitoring and sampling terminology see Part III, Section F.
- E. 24-HOUR ORAL REPORTING: DAILY MAXIMUM LIMITATION VIOLATIONS

Under the provisions of Part III.D.6.e.(3) of this permit, violations of daily maximum limitations for the following pollutants shall be reported orally to the Office of Environmental Compliance within 24 hours from the time the permittee became aware of the violation followed by a written report in five days.

METALS

Total Chromium
Total Copper
Total Lead
Total Nickel
Total Zinc

VOLATILE COMPOUNDS

Acrylonitrile
Benzene
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
1,1-Dichloroethane
1,2-Dichloroethane

OTHER REQUIREMENTS (continued)

1,1-Dichloroethylene
1,2-trans-Dichloroethylene
1,2-Dichloropropane
1,3-Dichloropropylene
Ethylbenzene
Methyl Chloride
Methylene Chloride
Tetrachloroethylene
Toluene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethylene
Vinyl Chloride

ACID COMPOUNDS

2-Chlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
4,6-Dinitro-o-cresol
2,4-Dinitrophenol
2-Nitrophenol
4-Nitrophenol
Phenol

BASE NEUTRAL COMPOUNDS

Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
3,4-Benzofluoranthene
Benzo(k)fluoranthene
Bis(2-ethylhexyl)phthalate
Chrysene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
2,4-Dinitrotoluene
2,6-Dinitrotoluene
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachloroethane
Naphthalene

OTHER REQUIREMENTS (continued)

Nitrobenzene
Phenanthrene
Pyrene
1,2,4-Trichlorobenzene

F. COMPOSITE SAMPLING

1. STANDARD PROVISIONS

Unless otherwise specified in this permit, the term "24-hour composite sample" means a sample consisting of a minimum of four (4) aliquots of effluent collected at regular intervals over a normal 24-hour operating day and combined in proportion to flow or a sample continuously collected in proportion to flow over a normal 24-hour operating period.

2. VOLATILE COMPOUNDS

For the "24-hour composite" sampling of volatile compounds using EPA Methods 601, 602, 603, 624, 1624, or any other 40 CFR Part 136 (See LAC 33:IX.2531) method approved after the effective date of the permit, the permittee shall manually collect four (4) aliquots (grab samples) in clean zero head-space containers at regular intervals during the actual hours of discharge during the 24-hour sampling period using sample collection, preservation, and handling techniques specified in the test method. These aliquots must be combined in the laboratory to represent the composite sample of the discharge. One of the following alternative methods shall be used to composite these aliquots.

- a. Each aliquot is poured into a syringe. The plunger is added, and the volume in the syringe is adjusted to 1-1/4 ml. Each aliquot (1-1/4 ml.) is injected into the purging chamber of the purge and trap system. After four (4) injections (total 5 ml.), the chamber is purged. Only one analysis or run is required since the aliquots are combined prior to analysis.
- b. Chill the four (4) aliquots to 4 Degrees Centigrade. These aliquots must be of equal volume. Carefully pour the contents of each of the four aliquots into a 250-500 ml. flask which is chilled in a wet ice bath. Stir the mixture gently with a clean glass rod while in the ice bath. Carefully fill two (2) or more clean 40 ml. zero head-space vials from the flask and dispose of the remainder of the mixture. Analyze one of the aliquots to determine the concentration of the composite sample. The remaining aliquot(s) are replicate composite samples that can be analyzed if desired or necessary.
- c. Alternative sample compositing methods may be used following written approval by this Office.

Part II

Page 4 of 24

Permit No. Draft LA0007129

AI No. 2455

OTHER REQUIREMENTS (continued)

The individual samples resulting from the application of these compositing methods shall be analyzed following the procedures specified for the selected test method. The resulting analysis shall be reported as the daily composite concentration.

As an option to the above compositing methods, the permittee may manually collect four (4) aliquots (grab samples) in clean zero head-space containers at regular intervals during the actual hours of discharge during the 24-hour sampling period using sample collection, preservation, and handling techniques specified in the test method. A separate analysis shall be conducted for each discrete grab sample following the approved test methods. The determination of daily composite concentration shall be the arithmetic average (weighted by flow) of all grab samples collected during the 24-hour sampling period.

G. 40 CFR PART 136 (See LAC 33:IX.4901) ANALYTICAL REQUIREMENTS

Unless otherwise specified in this permit, monitoring shall be conducted according to analytical, apparatus and materials, sample collection, preservation, handling, etc., procedures listed at 40 CFR Part 136, and in particular, Appendices A, B, and C (See LAC 33:IX.4901).

H. FLOW MEASUREMENT "ESTIMATE" SAMPLE TYPE

- If the flow measurement sample type in Part I is specified as "estimate", flow measurements shall not be subject to the accuracy provisions established at Part III.C.6 of this permit. The daily flow value may be estimated using best engineering judgement.

I. pH RANGE EXCURSION PROVISIONS

Where a permittee continuously measures the pH of wastewater as a requirement or option in a Louisiana Pollutant Discharge Elimination System (LPDES) permit, the permittee shall maintain the pH of such wastewater within the range set forth in the permit, except that excursions from the range are permitted, provided:

1. The total time during which the pH values are outside the required range of pH values shall not exceed 446 minutes in any calendar month; and
2. No individual excursion from the range of pH values shall exceed 60 minutes.

For the purposes of this section, an "excursion" is an unintentional and temporary incident in which the pH value of discharge wastewater exceeds the range set forth in the permit.

OTHER REQUIREMENTS (continued)

J. MINIMUM QUANTIFICATION LEVEL (MOL)

If any individual analytical test result is less than the minimum quantification level listed below, a value of zero (0) may be used for that individual result for the Discharge Monitoring Report (DMR) calculations and reporting requirements.

| <u>NONCONVENTIONAL</u> | <u>MOL ($\mu\text{g/L}$)</u> |
|-------------------------------------|---|
| Phenolics, Total Recoverable (4AAP) | 5 |
| Chlorine (Total Residual) | 100 |
| 3-Chlorophenol | 10 |
| 4-Chlorophenol | 10 |
| 2,3-Dichlorophenol | 10 |
| 2,5-Dichlorophenol | 10 |
| 2,6-Dichlorophenol | 10 |
| 3,4-Dichlorophenol | 10 |
| 2,4-D | 10 |
| 2,4,5-TP (Silvex) | 4 |

| <u>METALS AND CYANIDE</u> | <u>MOL ($\mu\text{g/L}$)</u> |
|---------------------------|---|
| Antimony (Total) | 60 |
| Arsenic (Total) | 10 |
| Beryllium (Total) | 5 |
| Cadmium (Total) | 1 |
| Chromium (Total) | 10 |
| Chromium (3+) | 10 |
| Chromium (6+) | 10 |
| Copper (Total) | 10 |
| Lead (Total) | 5 |
| Mercury (Total) | 0.2 |
| Molybdenum (Total) | 30 |
| Nickel (Total) Freshwater | 40 |
| Nickel (Total) Marine | 5 |
| Selenium (Total) | 5 |
| Silver (Total) | 2 |
| Thallium (Total) | 10 |
| Zinc (Total) | 20 |
| Cyanide (Total) | 20 |

| <u>DIOXIN</u> | <u>MOL ($\mu\text{g/L}$)</u> |
|---------------|---|
| 2,3,7,8-TCDD | 0.00001 |

| <u>VOLATILE COMPOUNDS</u> | <u>MOL ($\mu\text{g/L}$)</u> |
|---------------------------|---|
| Acrolein | 50 |
| Acrylonitrile | 50 |
| Benzene | 10 |
| Bromoform | 10 |
| Carbon Tetrachloride | 10 |

Part II

Page 6 of 24

Permit No. Draft LA0007129

AI No. 2455

OTHER REQUIREMENTS (continued)

| | |
|---------------------------------|----|
| Chlorobenzene | 10 |
| Chlorodibromomethane | 10 |
| Chloroethane | 50 |
| 2-Chloroethylvinylether | 10 |
| Chloroform | 10 |
| Dichlorobromomethane | 10 |
| 1,1-Dichloroethane | 10 |
| 1,2-Dichloroethane | 10 |
| 1,1-Dichloroethylene | 10 |
| 1,2-Dichloropropane | 10 |
| 1,3-Dichloropropylene | 10 |
| Ethylbenzene | 10 |
| Methyl Bromide [Bromomethane] | 50 |
| Methyl Chloride [Chloromethane] | 50 |
| Methylene Chloride | 20 |
| 1,1,2,2-Tetrachloroethane | 10 |
| Tetrachloroethylene | 10 |
| Toluene | 10 |
| 1,2-trans-Dichloroethylene | 10 |
| 1,1,1-Trichloroethane | 10 |
| 1,1,2-Trichloroethane | 10 |
| Trichloroethylene | 10 |
| Vinyl Chloride | 10 |

ACID COMPOUNDSMQL ($\mu\text{g/L}$)

| | |
|---|----|
| 2-Chlorophenol | 10 |
| 2,4-Dichlorophenol | 10 |
| 2,4-Dimethylphenol | 10 |
| 4,6-Dinitro-o-Cresol [2-Methyl-4,6-Dinitrophenol] | 50 |
| 2,4-Dinitrophenol | 50 |
| 2-Nitrophenol | 20 |
| 4-Nitrophenol | 50 |
| p-Chloro-m-Cresol [4-Chloro-3-Methylphenol] | 10 |
| Pentachlorophenol | 50 |
| Phenol | 10 |
| 2,4,6-Trichlorophenol | 10 |

BASE/NEUTRAL COMPOUNDSMQL ($\mu\text{g/L}$)

| | |
|-----------------------------|----|
| Acenaphthene | 10 |
| Acenaphthylene | 10 |
| Anthracene | 10 |
| Benzidine | 50 |
| Benzo(a)anthracene | 10 |
| Benzo(a)pyrene | 10 |
| 3,4-Benzofluoranthene | 10 |
| Benzo(ghi)perylene | 20 |
| Benzo(k)fluoranthene | 10 |
| Bis(2-chloroethoxy) Methane | 10 |

OTHER REQUIREMENTS (continued)

| | |
|---|----|
| Bis(2-chloroethyl) Ether | 10 |
| Bis(2-chloroisopropyl) Ether | 10 |
| Bis(2-ethylhexyl) Phthalate | 10 |
| 4-Bromophenyl Phenyl Ether | 10 |
| Butylbenzyl Phthalate | 10 |
| 2-Chloronaphthalene | 10 |
| 4-Chlorophenyl Phenyl Ether | 10 |
| Chrysene | 10 |
| Dibenzo(a,h)anthracene | 20 |
| 1,2-Dichlorobenzene | 10 |
| 1,3-Dichlorobenzene | 10 |
| 1,4-Dichlorobenzene | 10 |
| 3,3'-Dichlorobenzidine | 50 |
| Diethyl Phthalate | 10 |
| Dimethyl Phthalate | 10 |
| Di-n-Butyl Phthalate | 10 |
| 2,4-Dinitrotoluene | 10 |
| 2,6-Dinitrotoluene | 10 |
| Di-n-octyl Phthalate | 10 |
| 1,2-Diphenylhydrazine | 20 |
| Fluoranthene | 10 |
| Fluorene | 10 |
| Hexachlorobenzene | 10 |
| Hexachlorobutadiene | 10 |
| Hexachlorocyclopentadiene | 10 |
| Hexachloroethane | 20 |
| Indeno(1,2,3-cd)pyrene [2,3-o-Phenylene Pyrene] | 20 |
| Isophorone | 10 |
| Naphthalene | 10 |
| Nitrobenzene | 10 |
| n-Nitrosodimethylamine | 50 |
| n-Nitrosodi-n-Propylamine | 20 |
| n-Nitrosodiphenylamine | 20 |
| Phenanthrene | 10 |
| Pyrene | 10 |
| 1,2,4-Trichlorobenzene | 10 |

PESTICIDESMOL (µg/L)

| | |
|---------------------|------|
| Aldrin | 0.05 |
| Alpha-BHC | 0.05 |
| Beta-BHC | 0.05 |
| Gamma-BHC [Lindane] | 0.05 |
| Delta-BHC | 0.05 |
| Chlordane | 0.2 |
| 4,4'-DDT | 0.1 |
| 4,4'-DDE [p,p-DDX] | 0.1 |
| 4,4'-DDD [p,p-TDE] | 0.1 |
| Dieldrin | 0.1 |

Part II

Page 8 of 24
Permit No. Draft LA0007129
AI No. 2455

OTHER REQUIREMENTS (continued)

| | |
|--|------|
| Alpha-Endosulfan | 0.1 |
| Beta-Endosulfan | 0.1 |
| Endosulfan Sulfate | 0.1 |
| Endrin | 0.1 |
| Endrin-Aldehyde | 0.1 |
| Heptachlor | 0.05 |
| Heptachlor Epoxide [BHC-Hexachlorocyclohexane] | 0.05 |
| PCB-1242 | 1.0 |
| PCB-1254 | 1.0 |
| PCB-1221 | 1.0 |
| PCB-1232 | 1.0 |
| PCB-1248 | 1.0 |
| PCB-1260 | 1.0 |
| PCB-1016 | 1.0 |
| Toxaphene | 5.0 |

The permittee may develop an effluent specific method detection limit (MDL) in accordance with Appendix B to 40 CFR Part 136 (See LAC 33:IX.4901). For any pollutant for which the permittee determines an effluent specific MDL, the permittee shall send to this Office a report containing QA/QC documentation, analytical results, and calculations necessary to demonstrate that the effluent specific MDL was correctly calculated. An effluent specific minimum quantification level (MQL) shall be determined in accordance with the following calculation:

$$MQL = 3.3 \times MDL$$

Upon written approval by this Office, the effluent specific MQL may be utilized by the permittee for all future Discharge Monitoring Report (DMR) calculations and reporting requirements.

- K. The permittee shall achieve compliance with the effluent limitations and monitoring requirements specified for discharges in accordance with the following schedule:

Effective date of the permit

L. PERMIT REOPENER CLAUSE

In accordance with LAC 33:IX.2903, this permit may be modified, or alternatively, revoked and reissued, to comply with any applicable effluent standard or limitations issued or approved under sections 301(b)(2)(c) and (D); 304(b)(2); and 307(a)(2) of the Clean Water Act, if the effluent standard or limitations so issued or approved:

1. Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or

OTHER REQUIREMENTS (continued)

2. Controls any pollutant not limited in the permit; or
3. Require reassessment due to change in 303(d) status of waterbody; or
4. Incorporates the results of any total maximum daily load allocation, which may be approved for the receiving water body.

The Department of Environmental Quality reserves the right to impose more stringent discharge limitations and/or additional restrictions in the future to maintain the water quality integrity and the designated uses of the receiving water bodies based upon additional water quality studies and/or TMDL's. The DEQ also reserves the right to modify or revoke and reissue this permit based upon any changes to established TMDL's for this discharge, or to accommodate for pollutant trading provisions in approved TMDL watersheds as necessary to achieve compliance with water quality standards. Therefore, prior to upgrading or expanding this facility, the permittee should contact the Department to determine the status of the work being done to establish future effluent limitations and additional permit conditions.

M. STORMWATER DISCHARGES

1. This section applies to all stormwater discharges from the facility, either through permitted outfalls or through outfalls which are not listed in the permit or as sheet flow. The purpose of the pollution prevention plan is to identify potential sources of pollution that would reasonably be expected to affect the quality of stormwater and identify the practices that will be used to prevent or reduce the pollutants in stormwater discharges.
2. Any runoff leaving the developed areas of the facility, other than the permitted outfall(s), exceeding 50 mg/L TOC, 15 mg/L Oil and Grease, or having a pH less than 6.0 or greater than 9.0 standard units shall be a violation of this permit. Any discharge in excess of these limitations, which is attributable to offsite contamination shall not be considered a violation of this permit. A visual inspection of the facility shall be conducted and a report made annually as described in Paragraph 4 below.
3. The permittee shall prepare, implement, and maintain a Storm Water Pollution Prevention Plan (SWP3) within six (6) months of the effective date of the final permit. The terms and conditions of the SWP3 shall be an enforceable Part of the permit. If the permittee maintains other plans that contain duplicative information, those plans could be incorporated by reference into the SWP3. Examples of these type plans include, but are not limited to: Spill Prevention Control and Countermeasure Plan (SPCC), Best Management Plan (BMP), Response Plans, etc. EPA document 833-R-92-006 (Storm Water Management for Industrial Activities) may be used as a guidance and may be obtained by writing to

OTHER REQUIREMENTS (continued)

the Water Resource Center (RC_4100), U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue NW, Washington D.C. 20460 or by calling (202) 566-1729 or via the Wetlands Helpline (800) 832-7828.

4. The following conditions are applicable to all facilities and shall be included in the SWP3 for the facility.

- a. The permittee shall conduct an annual inspection of the facility site to identify areas contributing to the storm water discharge from developed areas of the facility and evaluate whether measures to reduce pollutant loadings identified in the SWP3 are adequate and have been properly implemented in accordance with the terms of the permit or whether additional control measures are needed.
- b. The permittee shall develop a site map which includes all areas where stormwater may contact potential pollutants or substances which can cause pollution. Any location where reportable quantities leaks or spills have previously occurred are to be documented in the SWP3. The SWP3 shall contain a description of the potential pollutant sources, including, the type and quantity of material present and what action has been taken to assure stormwater precipitation will not directly contact the substances and result in contaminated runoff.
- c. Where experience indicates a reasonable potential for equipment failure (e.g. a tank overflow or leakage), natural condition of (e.g. precipitation), or other circumstances which result in significant amounts of pollutants reaching surface waters, the SWP3 should include a prediction of the direction, rate of flow and total quantity of pollutants which could be discharged from the facility as a result of each condition or circumstance.
- d. The permittee shall maintain for a period of three years a record summarizing the results of the inspection and a certification that the facility is in compliance with the SWP3, and identifying any incidents of noncompliance. The summary report should contain, at a minimum, the date and time of inspection, name of inspector(s), conditions found, and changes to be made to the SWP3.
- e. The summary report and the following certification shall be signed in accordance with LAC 33:IX.2503. The summary report is to be attached to the SWP3 and provided to the Department upon request.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those

OTHER REQUIREMENTS (continued)

persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signatory requirements for the certification may be found in Part III, Section D.10 of this permit.

- f. The permittee shall make available to the Department, upon request, a copy of the SWP3 and any supporting documentation.
- 5. The following shall be included in the SWP3, if applicable.
 - a. The permittee shall utilize all reasonable methods to minimize any adverse impact on the drainage system including but not limited to:
 - i. maintaining adequate roads and driveway surfaces;
 - ii. removing debris and accumulated solids from the drainage system; and
 - iii. cleaning up immediately any spill by sweeping, absorbent pads, or other appropriate methods.
 - b. All spilled product and other spilled wastes shall be immediately cleaned up and disposed of according to all applicable regulations, Spill Prevention and Control (SPC) plans or Spill Prevention Control and Countermeasures (SPCC) plans. Use of detergents, emulsifiers, or dispersants to clean up spilled product is prohibited except where necessary to comply with State or Federal safety regulations (i.e., requirement for non-slippery work surface) except where the cleanup practice does not result in a discharge and does not leave residues exposed to future storm events. In all such cases, initial cleanup shall be done by physical removal and chemical usage shall be minimized.
 - c. All equipment, parts, dumpsters, trash bins, petroleum products, chemical solvents, detergents, or other materials exposed to stormwater shall be maintained in a manner which prevents contamination of stormwater by pollutants.
 - d. All waste fuel, lubricants, coolants, solvents, or other fluids used in the repair or maintenance of vehicles or equipment shall be recycled or contained for proper disposal. Spills of these materials are to be cleaned up by dry means whenever possible.
 - e. If applicable, all storage tank installations (with a capacity greater than 660 gallons for an individual container, or 1,320 gallons for two or more containers in aggregate within a common

OTHER REQUIREMENTS (continued)

storage area) shall be constructed so that a secondary means of containment is provided for the entire contents of the largest tank plus sufficient freeboard to allow for precipitation. Diked areas should be sufficiently impervious to contain spills.

- f. All diked areas surrounding storage tanks or stormwater collection basins shall be free of residual oil or other contaminants so as to prevent the accidental discharge of these materials in the event of flooding, dike failure, or improper draining of the diked area. All drains from diked areas shall be equipped with valves which shall be kept in the closed condition except during periods of supervised discharge.
 - g. All check valves, tanks, drains, or other potential sources of pollutant releases shall be inspected and maintained on a regular basis to assure their proper operation and to prevent the discharge of pollutants.
 - h. The permittee shall assure compliance with all applicable regulations promulgated under the Louisiana Solid Waste and Resource Recovery Law and the Hazardous Waste Management Law (L.R.S. 30:2151, etc.). Management practices required under above regulations shall be referenced in the SWP3.
 - i. The permittee shall amend the SWP3 whenever there is a change in the facility or change in the operation of the facility which materially increases the potential for the ancillary activities to result in a discharge of significant amounts of pollutants.
 - j. If the SWP3 proves to be ineffective in achieving the general objectives of preventing the release of significant amounts of pollutants to water of the state, then the specific objectives and requirements of the SWP3 shall be subject to modification to incorporate revised SWP3 requirements.
6. Facility Specific SWP3 Conditions:

Outfall 004 - The action level for TSS has been removed from this outfall at the request of the permittee. Outfall 004 is located in an Iberville Parish ditch and runoff to it is not under Georgia Gulf's control. This parish ditch, on the east side of the landfarm, is maintained by the parish and receives runoff from adjacent property that was farmland and is currently the construction site of the new Shintech facility. The runoff shall be addressed in Georgia Gulf's Stormwater Pollution Prevention Plan to address runoff from its landfarm and the practices that are intended to limit the discharge of suspended solids from the landfarm.

OTHER REQUIREMENTS (continued)

- N. Action levels and required actions have been established for the following outfalls and effluent characteristics:

Outfall 302:

| | |
|--------------------------|----------|
| Phenol | 100 µg/L |
| Vinyl Chloride | 268 µg/L |
| 1,2-Dichloroethane (EDC) | 211 µg/L |
| Chloroform | 100 µg/L |

Monitoring requirements for all other Outfall 302 action levels will be conducted according to the analytical procedures provided in the letter from Georgia Gulf to Tassin (LDEQ) dated October 21, 1998. Any changes to these analytical procedures will require Department approval.

Upon exceedance of any of the above action levels, discharges through Outfall 302 suspected of contributing to the contamination shall be discontinued until such time as confirmation sampling indicates the subject effluent characteristics are below the action levels. At the discretion of the permittee and within accordance to the action levels, the discharge through Outfall 302 shall be routed to the biological surge tank for treatment prior to discharge through Outfall 202.

Georgia Gulf shall prepare, implement, and maintain a response plan within 6 months of the effective date of this permit. The plan must clearly outline the procedures Georgia Gulf follows for action level exceedances. The plan shall also be made available to this Office upon request.

Outfalls 004, 005, and 006:

| | |
|--------------------------|-----------|
| TSS(*) | 100 mg/L |
| Total Chromium | 150 µg/L |
| Total Copper | 500 µg/L |
| Total Nickel | 500 µg/L |
| Total Zinc | 1000 µg/L |
| Chloroform | 100 µg/L |
| 1,2-Dichloroethane (EDC) | 100 µg/L |
| Phenol | 100 µg/L |
| Vinyl Chloride | 100 µg/L |

(*) The TSS action level shall not apply to discharges at Outfall 004. The action level for TSS has been removed from this outfall at the request of the permittee. Outfall 004 is located in an Iberville Parish ditch and runoff to it is not under Georgia Gulf's control. This parish ditch, on the east side of the landfarm, is maintained by the parish and receives runoff from adjacent property that was farmland and is currently the construction site of the new Shintech facility. The runoff shall be addressed in Georgia Gulf's Stormwater Pollution Prevention Plan to address runoff from its

OTHER REQUIREMENTS (continued)

landfarm and the practices that are intended to limit the discharge of suspended solids from the landfarm. Therefore, the permit establishes TSS monitoring and reporting only.

Upon exceedance of any the above action levels, the permittee shall institute a study to determine the source of the effluent characteristic and if necessary, modify the storm water pollution prevention plan (Part II, Paragraph L) within 60 days to minimize concentration of these parameters in stormwater discharges. The permittee shall retain a record of any exceedance and the necessary modification to the stormwater pollution prevention plan for a period of at least three (3) years from the date of exceedance.

O. SPECIAL REPORTING REQUIREMENTS FOR DOCK FIRE WATER PROTECTION SYSTEM

Georgia Gulf utilizes a fire protection system at their dock which uses the following water sources: a mixture of lime softened-pH neutralized well water, previously monitored PVC reuse/recycle water from Outfall 402, and untreated Mississippi River water. Georgia Gulf may use all sources of water as indicated above, however, the well water must be pH neutralized and within the 6.0-9.0 standard unit range and the PVC reuse/recycle water must be at or below the limits established at Outfall 402 prior to use in the fire water protection system. The combined mixture of lime softened-pH neutralized well water and previously monitored PVC reuse/recycle water from Outfall 402 will be referred to as the fire water source and untreated Mississippi River water will be called the river water source.

1. On a monthly basis, Georgia Gulf shall document the activity at this outfall in a log including the source of the water used (fire water or river water), an estimate of the flow, and the duration of discharge. This shall be maintained onsite for a period of three (3) years.
2. The above information is to be summarized monthly, and submitted to the Office of Environmental Compliance with the Discharge Monitoring Reports (DMRs).

P. DISCHARGE MONITORING REPORTS

Monitoring results must be reported on a Discharge Monitoring Report (DMR) form (EPA No. 3320-1 or an approved substitute). All monitoring reports must be retained for a period of at least three (3) years from the date of the sample measurement. The permittee shall make available to this Department, upon request, copies of all monitoring data required by this permit.

If there is a no discharge event at any of the monitored outfall(s) during the reporting period, place an "X" in the NO DISCHARGE box located in the upper right corner of the Discharge Monitoring Report.

OTHER REQUIREMENTS (continued)

Reporting periods shall end on the last day of the month. Monitoring results for each month shall be summarized on a Discharge Monitoring Report (DMR) Form and submitted to this Department per schedule below, postmarked no later than the 15th day of the month following each reporting period.

Permittees shall be required to submit DMR's according to the following schedule or as established in the permit:

For parameter(s) with monitoring frequency(ies) of 1/month or more frequent:

Submit DMR by the 15th day of the following month.

For parameter(s) with monitoring frequency(ies) of 1/quarter:

| <u>Monitoring Period</u> | <u>DMR Due Date</u> |
|--------------------------|---------------------|
| January 1 - March 31 | April 15th |
| April 1 - June 30 | July 15th |
| July 1 - September 30 | October 15th |
| October 1 - December 31 | January 15th |

For parameter(s) with monitoring frequency(ies) of semi-annual:

| <u>Monitoring Period</u> | <u>DMR Due Date</u> |
|--------------------------|---------------------|
| January 1 - June 30 | July 15th |
| July 1 - December 31 | January 15th |

For parameter(s) with monitoring frequency(ies) of 1/year:

| <u>Monitoring Period</u> | <u>DMR Due Date</u> |
|--------------------------|---------------------|
| January 1 - December 31 | January 15th |

Duplicate copies of DMR's (one set of originals and one set of copies) signed and certified as required by LAC 33:IX.2503.B, and all other reports (one set of originals) required by this permit shall be submitted to the Permit Compliance Unit, and the appropriate DEQ regional office (one set of copies) at the following addresses:

Department of Environmental Quality
Office of Environmental Compliance
Permit Compliance Unit
Post Office Box 4312
Baton Rouge, Louisiana 70821-4312

OTHER REQUIREMENTS (continued)

Capital Regional Office
Office of Environmental Compliance
Surveillance Division
Post Office Box 4312
Baton Rouge, Louisiana 70821-4312

Q. 48 HR ACUTE BIOMONITORING REQUIREMENTS: FRESHWATER

1. SCOPE AND METHODOLOGY

- a. The permittee shall test the effluent for toxicity in accordance with the provisions in this section.

| | |
|-----------------------------------|---|
| APPLICABLE TO OUTFALL(S): | 002 |
| REPORTED ON DMR AS FINAL OUTFALL: | TX2 |
| CRITICAL DILUTION: | 0.2% |
| EFFLUENT DILUTION SERIES: | 0.7%, 0.5%, 0.4%, 0.3%, and 0.2% |
| COMPOSITE SAMPLE TYPE: | Defined at PART I |
| TEST SPECIES/METHODS: | 40 CFR Part 136 (See LAC 33:IX.2531) |

Daphnia pulex acute static renewal 48-hour definitive toxicity test using EPA 821-R-02-012, or the latest update thereof. A minimum of five (5) replicates with ten (10) organisms per replicate must be used in the control and in each effluent dilution of this test.

Pimephales promelas (Fathead minnow) acute static renewal 48-hour definitive toxicity test using EPA 821-R-02-012, or the latest update thereof. A minimum of five (5) replicates with ten (10) organisms per replicate must be used in the control and in each effluent dilution of this test.

- b. The NOEC (No Observed Effect Concentration) is defined as the greatest effluent dilution at and below which lethality that is statistically different from the control (0% effluent) at the 95% confidence level does not occur.
- c. This permit may be reopened to require whole effluent toxicity limits, chemical specific effluent limits, additional testing, and/or other appropriate actions to address toxicity.

OTHER REQUIREMENTS (continued)

- d. Test failure is defined as a demonstration of statistically significant sub-lethal or lethal effects to a test species at or below the effluent critical dilution.

2. PERSISTENT LETHALITY

The requirements of this subsection apply only when a toxicity test demonstrates significant lethal effects at or below the critical dilution. Significant lethal effects are herein defined as a statistically significant difference at the 95% confidence level between the survival of the appropriate test organism in a specified effluent dilution and the control (0% effluent).

a. Part I Testing Frequency Other Than Monthly

- i. The permittee shall conduct a total of two (2) additional tests for any species that demonstrates significant lethal effects at the critical dilution. The two additional tests shall be conducted monthly during the next two consecutive months. The permittee shall not substitute either of the two additional tests in lieu of routine toxicity testing, unless the specified testing frequency for the species demonstrating significant lethal effects is monthly. The full report shall be prepared for each test required by this section in accordance with procedures outlined in item 4 of this section and submitted with the period discharge monitoring report (DMR) to the permitting authority for review.
- ii. If one or both of the two additional tests demonstrates significant lethal effects at or below the critical dilution, the permittee shall initiate Toxicity Reduction Evaluation (TRE) requirements as specified in item 5 of this section. The permittee shall notify this Office in writing within 5 days of the failure in any retest, and the TRE initiation date will be the test completion date of the first failed retest. A TRE may also be required due to a demonstration of intermittent lethal effects at or below the critical dilution, or for failure to perform the required retests.
- iii. If one or both of the two additional tests demonstrates significant lethal effects at or below the critical dilution, the frequency of testing for this species shall be once per quarter for the life of the permit.
- iv. The provisions of item 2.a are suspended upon submittal of the TRE Action Plan.

OTHER REQUIREMENTS (continued)

b. Part I Testing Frequency of Monthly

The permittee shall initiate the Toxicity Reduction Evaluation (TRE) requirements as specified in item 5 of this section when any two of three consecutive monthly toxicity tests exhibit significant lethal effects at the critical dilution. A TRE may be also required due to demonstration of intermittent lethal effects at or below the critical dilution, or for failure to perform the required retests.

3. REQUIRED TOXICITY TESTING CONDITIONS

a. Test Acceptance

The permittee shall repeat a test, including the control and all effluent dilutions, if the procedures and quality assurance requirements defined in the test methods or in this permit are not satisfied, including the following additional criteria:

- i. Each toxicity test control (0% effluent) must have a survival equal to or greater than 90%.
- ii. The percent coefficient of variation between replicates shall be 40% or less in the control (0% effluent) for: Daphnia pulex survival test; and Fathead minnow survival test.
- iii. The percent coefficient of variation between replicates shall be 40% or less in the critical dilution, unless significant lethal effects are exhibited for: Daphnia pulex survival test; and Fathead minnow survival test.

Test failure may not be construed or reported as invalid due to a coefficient of variation value of greater than 40%. A repeat test shall be conducted within the required reporting period of any test determined to be invalid.

b. Statistical Interpretation

For the Daphnia pulex survival test and the Fathead minnow survival test, the statistical analyses used to determine if there is a statistically significant difference between the control and the critical dilution shall be in accordance with the methods for determining the No Observed Effect Concentration (NOEC) as described in EPA 821-R-02-012, or the most recent update thereof.

If the conditions of Test Acceptability are met in Item 3.a above and the percent survival of the test organism is equal to or greater than 90% in the critical dilution concentration and all lower dilution concentrations, the test shall be considered to be a

OTHER REQUIREMENTS (continued)

passing test regardless of the NOEC, and the permittee shall report a NOEC of not less than the critical dilution for the DMR reporting requirements found in Item 4 below.

c. Dilution Water

- i. Dilution water used in the toxicity tests will be receiving water collected as close to the point of discharge as possible but unaffected by the discharge. The permittee shall substitute synthetic dilution water of similar pH, hardness and alkalinity to the closest downstream perennial water for;
 - (A) toxicity tests conducted on effluent discharges to receiving water classified as intermittent streams; and
 - (B) toxicity tests conducted on effluent discharges where no receiving water is available due to zero flow conditions.
- ii. If the receiving water is unsatisfactory as a result of instream toxicity (fails to fulfill the test acceptance criteria of item 3.a), the permittee may substitute synthetic dilution water for the receiving water in all subsequent tests provided the unacceptable receiving water test met the following stipulations:
 - (A) a synthetic dilution water control which fulfills the test acceptance requirements of item 3.a was run concurrently with the receiving water control;
 - (B) the test indicating receiving water toxicity has been carried out to completion (i.e., 48 hours);
 - (C) the permittee includes all test results indicating receiving water toxicity with the full report and information required by item 4 below; and
 - (D) the synthetic dilution water shall have a pH, hardness and alkalinity similar to that of the receiving water or closest downstream perennial water not adversely affected by the discharge, provided the magnitude of these parameters will not cause toxicity in the synthetic dilution water.

d. Samples and Composites

- i. The permittee shall collect two flow-weighted composite samples from the outfall(s) listed at item 1.a above.

OTHER REQUIREMENTS (continued)

- ii. The permittee shall collect a second composite sample for use during the 24-hour renewal of each dilution concentration for both tests. The permittee must collect the composite samples so that the maximum holding time for any effluent sample shall not exceed 36 hours. The permittee must have initiated the toxicity test within 36 hours after the collection of the last portion of the first composite sample. Samples shall be chilled between 0 and 6 degrees Centigrade during collection, shipping and/or storage.
- iii. The permittee must collect the composite samples such that the effluent samples are representative of any periodic episode of chlorination, biocide usage or other potentially toxic substance discharged on an intermittent basis.
- iv. If the flow from the outfall(s) being tested ceases during the collection of effluent samples, the requirements for the minimum number of effluent samples, the minimum number of effluent portions and the sample holding time are waived during that sampling period. However, the permittee must collect an effluent composite sample volume during the period of discharge that is sufficient to complete the required toxicity tests with daily renewal of effluent. When possible, the effluent samples used for the toxicity tests shall be collected on separate days. The effluent composite sample collection duration and the static renewal protocol associated with the abbreviated sample collection must be documented in the full report required in item 4. of this section.
- v. MULTIPLE OUTFALLS: If the provisions of this section are applicable to multiple outfalls, the permittee shall combine the composite effluent samples in proportion to the average flow from the outfalls listed in item 1.a above for the day the sample was collected. The permittee shall perform the toxicity test on the flow-weighted composite of the outfall samples.

4. REPORTING

- a. The permittee shall prepare a full report of the results of all tests conducted pursuant to this Part in accordance with the Report Preparation Section of EPA 821-R-02-012, for every valid or invalid toxicity test initiated, whether carried to completion or not. The permittee shall retain each full report pursuant to the provisions of Part III.C.3 of this permit. For any test which fails, is considered invalid or which is terminated early for any reason, the full report must be submitted for agency review. The permittee shall submit the first full report to:

OTHER REQUIREMENTS (continued)

Department of Environmental Quality
Office of Environmental Compliance
Enforcement Division

P.O. Box 4312

Baton Rouge, Louisiana 70821-4312

Attn: Permit Compliance Unit

- b. A valid test for each species must be reported on the DMR during each reporting period specified in Part I of this permit unless the permittee is performing a TRE which may increase the frequency of testing and reporting. Only ONE set of biomonitoring data for each species is to be recorded on the DMR for each reporting period. The data submitted should reflect the LOWEST Survival results for each species during the reporting period. All invalid tests, repeat tests (for invalid tests), and retests (for tests previously failed) performed during the reporting period must be attached to the DMR for this Office to review.

If a test failure has occurred and the required retests have been performed, the test results are to be reported on the DMR as follows:

| <u>Parameter Code</u> | <u>Report</u> |
|-----------------------|--------------------|
| Retest #1 22415 | 0 Pass, or, 1 Fail |
| Retest #2 22416 | 0 Pass, or, 1 Fail |

- c. The permittee shall report the following results of each valid toxicity test on the subsequent monthly DMR for that reporting period in accordance with Part III.D.4 of this permit. Submit retest information clearly marked as such with the following month's DMR. Only results of valid tests are to be reported on the DMR. The permittee shall submit the Table 1 and Table 2 summary sheets with each valid test.

i. Pimephales promelas (Fathead minnow)

- (A) If the No Observed Effect Concentration (NOEC) for survival is less than the critical dilution, enter a "1"; otherwise, enter a "0" for Parameter No. TEM6C.
- (B) Report the NOEC value for survival, Parameter No. TOM6C.
- (C) Report the highest (critical dilution or control) Coefficient of Variation, Parameter No. TQM6C.

OTHER REQUIREMENTS (continued)

ii. Daphnia pulex

(A) If the NOEC for survival is less than the critical dilution, enter a "1"; otherwise, enter a "0" for Parameter No. TEM3D.

(B) Report the NOEC value for survival, Parameter No. TOM3D.

(C) Report the highest (critical dilution or control) Coefficient of Variation, Parameter No. TQM3D.

The permittee shall submit the toxicity testing information contained in Tables 1 and 2 of this permit with the DMR subsequent to each and every toxicity test reporting period. The DMR and the summary table should be sent to the address indicated in 4.a. The permittee is not required to send the first complete report nor summary tables to EPA.

5. TOXICITY REDUCTION EVALUATION (TRE)

a. Within ninety (90) days of confirming lethality in the retests, the permittee shall submit a Toxicity Reduction Evaluation (TRE) Action Plan and Schedule for conducting a TRE. The TRE Action Plan shall specify the approach and methodology to be used in performing the TRE. A Toxicity Reduction Evaluation is an investigation intended to determine those actions necessary to achieve compliance with water quality-based effluent limits by reducing an effluent's toxicity to an acceptable level. A TRE is defined as a step-wise process which combines toxicity testing and analyses of the physical and chemical characteristics of a toxic effluent to identify the constituents causing effluent toxicity and/or treatment methods which will reduce the effluent toxicity. The TRE Action Plan shall lead to the successful elimination of effluent toxicity at the critical dilution and include the following:

i. Specific Activities. The plan shall detail the specific approach the permittee intends to utilize in conducting the TRE. The approach may include toxicity characterizations, identifications and confirmation activities, source evaluation, treatability studies, or alternative approaches. When the permittee conducts Toxicity Characterization Procedures the permittee shall perform multiple characterizations and follow the procedures specified in the document "Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures" (EPA-600/6-91/003) or alternate procedures. When the permittee conducts Toxicity Identification Evaluations and Confirmations, the permittee

OTHER REQUIREMENTS (continued)

shall perform multiple identifications and follow the methods specified in the documents "Methods for Aquatic Toxicity Identification Evaluations, Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations, Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081), as appropriate.

The documents referenced above may be obtained through the National Technical Information Service (NTIS) by phone at (703) 487-4650, or by writing:

U.S. Department of Commerce
National Technical Information Service
5285 Port Royal Road
Springfield, Va. 22161

- ii. Sampling Plan (e.g., locations, methods, holding times, chain of custody, preservation, etc.). The effluent sample volume collected for all tests shall be adequate to perform the toxicity test, toxicity characterization, identification and confirmation procedures, and conduct chemical specific analyses when a probable toxicant has been identified;

Where the permittee has identified or suspects specific pollutant(s) and/or source(s) of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical specific analyses for the identified and/or suspected pollutant(s) and/or source(s) of effluent toxicity. Where lethality was demonstrated within 24 hours of test initiation, each composite sample shall be analyzed independently. Otherwise the permittee may substitute a composite sample, comprised of equal portions of the individual composite samples, for the chemical specific analysis;

- iii. Quality Assurance Plan (e.g., QA/QC implementation, corrective actions, etc.); and
 - iv. Project Organization (e.g., project staff, project manager, consulting services, etc.).
- b. The permittee shall initiate the TRE Action Plan within thirty (30) days of plan and schedule submittal. The permittee shall assume all risks for failure to achieve the required toxicity reduction.
 - c. The permittee shall submit a quarterly TRE Activities Report, with the Discharge Monitoring Report in the months of January, April,

OTHER REQUIREMENTS (continued)

July and October, containing information on toxicity reduction evaluation activities including:

- i. any data and/or substantiating documentation which identifies the pollutant(s) and/or source(s) of effluent toxicity;
- ii. any studies/evaluations and results on the treatability of the facility's effluent toxicity; and
- iii. any data which identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to meet no significant lethality at the critical dilution.

The TRE Activities Report shall be submitted to the following addresses:

Department of Environmental Quality
Office of Environmental Compliance
Enforcement Division
P.O. Box 4312
Baton Rouge, Louisiana 70821-4312
Attn: Permit Compliance Unit

U.S. Environmental Protection Agency, Region 6
Water Enforcement Branch, 6 EN-WC
1445 Ross Avenue
Dallas, Texas 75202

- d. The permittee shall submit a Final Report on Toxicity Reduction Evaluation Activities no later than twenty-eight (28) months from confirming lethality in the retests, which provides information pertaining to the specific control mechanism selected that will, when implemented, result in reduction of effluent toxicity to no significant lethality at the critical dilution. The report will also provide a specific corrective action schedule for implementing the selected control mechanism.

A copy of the Final Report on Toxicity Reduction Evaluation Activities shall also be submitted to the above addresses.

- e. Quarterly testing during the TRE is a minimum monitoring requirement. LDEQ recommends that permittees required to perform a TRE not rely on quarterly testing alone to ensure success in the TRE, and that additional screening tests be performed to capture toxic samples for identification of toxicants. Failure to identify the specific chemical compound causing toxicity test failure will normally result in a permit limit for whole effluent toxicity limits per federal regulations at 40 CFR 122.44(d)(1)(v) and state regulations at LAC 33:IX.2707.D.1.e.

TABLE 1
SUMMARY SHEET

Daphnia pulex ACUTE SURVIVAL TEST RESULTS

PERMITTEE: Georgia Gulf Chemicals & Vinyls, LLC
 FACILITY SITE: Georgia Gulf - Plaquemine
 LPDES PERMIT NUMBER: LA0007129, 2455
 OUTFALL IDENTIFICATION: 002
 OUTFALL SAMPLE IS FROM _____ SINGLE _____ MULTIPLE DISCHARGES
 BIOMONITORING LABORATORY: _____
 DILUTION WATER USED: _____ RECEIVING WATER _____ LAB WATER
 CRITICAL DILUTION 0.5% DATE TEST INITIATED _____

1. LOW-FLOW LETHALITY:

Is the mean survival at 48 hours significantly less ($p=0.05$) than the control survival for the low flow or critical dilution?

_____ YES _____ NO

DILUTION SERIES RESULTS
percent survival

| TIME OF READING | REP | 0% | 0.7% | 0.5% | 0.4% | 0.3% | 0.2% |
|-----------------|-----|----|------|------|------|------|------|
| 24-HOUR | A | | | | | | |
| | B | | | | | | |
| | C | | | | | | |
| | D | | | | | | |
| | E | | | | | | |
| 48-HOUR | A | | | | | | |
| | B | | | | | | |
| | C | | | | | | |
| | D | | | | | | |
| | E | | | | | | |
| MEAN | | | | | | | |

2. Are the test results to be considered valid?

_____ yes _____ no
 If X no (test invalid), what reasons for invalidity?

3. Is this a retest of a previous invalid test?

_____ yes _____ no
 Is this a retest of a previous test failure?
 _____ yes _____ no

TABLE 1
SUMMARY SHEET CONTINUED

Daphnia pulex ACUTE SURVIVAL TEST RESULTS

4. Enter percent effluent corresponding to each NOEC (No Observed Effect Concentration) for Daphnia pulex:

NOEC _____ % EFFLUENT

LC₅₀48 _____ % EFFLUENT

TABLE 2
SUMMARY SHEET

Pimephales promelas ACUTE SURVIVAL TEST RESULTS

PERMITTEE: Georgia Gulf Chemicals & Vinyls, LLC
FACILITY SITE: Georgia Gulf - Plaquemine
LPDES PERMIT NUMBER: LA0007129, 2455
OUTFALL IDENTIFICATION: 002
OUTFALL SAMPLE IS FROM _____ SINGLE _____ MULTIPLE DISCHARGES
BIOMONITORING LABORATORY: _____
DILUTION WATER USED: _____ RECEIVING WATER _____ LAB WATER
CRITICAL DILUTION 0.5% DATE TEST INITIATED _____

1. LOW-FLOW LETHALITY:

Is the mean survival at 48 hours significantly less ($p=0.05$) than the control survival for the low flow or critical dilution?

YES NO

DILUTION SERIES RESULTS

percent survival

| TIME OF READING | REP | 0% | 0.7% | 0.5% | 0.4% | 0.3% | 0.2% |
|-----------------|-----|----|------|------|------|------|------|
| 24-HOUR | A | | | | | | |
| | B | | | | | | |
| | C | | | | | | |
| | D | | | | | | |
| | E | | | | | | |
| 48-HOUR | A | | | | | | |
| | B | | | | | | |
| | C | | | | | | |
| | D | | | | | | |
| | E | | | | | | |
| MEAN | | | | | | | |

2. Are the test results to be considered valid?

_____ yes _____ no

If X no (test invalid) , what reasons for invalidity?

3. Is this a retest of a previous invalid test?

_____ yes _____ no

TABLE 2
SUMMARY SHEET CONTINUED

Pimephales promelas ACUTE SURVIVAL TEST RESULTS

Is this a retest of a previous test failure?

_____yes _____no

4. Enter percent effluent corresponding to each NOEC (No Observed Effect Concentration) for Pimephales promelas:

NOEC _____% EFFLUENT

LC₅₀48 _____% EFFLUENT

PART III
STANDARD CONDITIONS FOR LPDES PERMITS

SECTION A. GENERAL CONDITIONS

1. Introduction

In accordance with the provisions of LAC 33:IX.2701, et. seq., this permit incorporates either expressly or by reference ALL conditions and requirements applicable to Louisiana Pollutant Discharge Elimination System Permits (LPDES) set forth in the Louisiana Environmental Quality Act (LEQA), as amended, as well as ALL applicable regulations.

2. Duty to Comply

The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Water Act (CWA) and the Louisiana Environmental Quality Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

3. Penalties for Violation of Permit Conditions

a. LA. R. S. 30:2025 provides for civil penalties for violations of these regulations and the Louisiana Environmental Quality Act. LA. R. S. 30:2076.2 provides for criminal penalties for violation of any provisions of the LPDES or any order or any permit condition or limitation issued under or implementing any provisions of the LPDES program. (See Section E. Penalties for Violation of Permit Conditions for additional details).

b. Any person may be assessed an administrative penalty by the State Administrative Authority under LA. R. S. 30:2025 for violating a permit condition or limitation implementing any of the requirements of the LPDES program in a permit issued under the regulations or the Louisiana Environmental Quality Act.

4. Toxic Pollutants

a. Other effluent limitations and standards under Sections 301, 302, 303, 307, 318, and 405 of the Clean Water Act. If any applicable toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under Section 307(a) of the Clean Water Act for a toxic pollutant and that standard or prohibition is more stringent than any limitation on the pollutant in this permit, the state administrative authority shall institute proceedings under these regulations to modify or revoke and reissue the permit to conform to the toxic effluent standard or prohibition.

b. The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the Clean Water Act within the time provided in the regulations that establish these standards or prohibitions, or standards for sewage sludge use or disposal, even if the permit has not yet been modified to incorporate the requirement.

5. Duty to Reapply

a. Individual Permits. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. The new application shall be submitted at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the state administrative authority. (The state administrative authority shall not grant permission for applications to be submitted later than the expiration date of the existing permit.) Continuation of expiring permits shall be governed by regulations promulgated at LAC 33:IX.2321 and any subsequent amendments.

b. General Permits. General permits expire five years after the effective date. Unless otherwise specified in the general permit, or notified by the Secretary or his designee, a permittee must submit an NOI/application for the permitted activity.

6. Permit Action

This permit may be modified, revoked and reissued, or terminated for cause in accordance with LAC 33:IX.2903, 2905, 2907, 3105 and 6509. The causes may include, but are not limited to, the following:

- a. Noncompliance by the permittee with any condition of the permit;
- b. The permittee's failure in the application or during the permit issuance process to disclose fully all relevant acts, or the permittee's misrepresentation of any relevant facts at any time;
- c. A determination that the permitted activity endangers human health or the environment and can only be regulated to acceptable levels by permit modification or termination;
- d. A change in any condition that requires either a temporary or a permanent reduction or elimination of any discharge; or
- e. Failure to pay applicable fees under the provisions of LAC 33: IX. Chapter 13;
- f. Change of ownership or operational control;

The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

7. Property Rights

This permit does not convey any property rights of any sort, or any exclusive privilege.

8. Duty to Provide Information

The permittee shall furnish to the state administrative authority, within a reasonable time, any information which the state administrative authority may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the state administrative authority, upon request, copies of records required to be kept by this permit.

9. Criminal and Civil Liability

Except as provided in permit conditions on "Bypassing" and "Upsets", nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance. Any false or materially misleading representation or concealment of information required to be reported by the provisions of the permit, the Act, or applicable regulations, which avoids or effectively defeats the regulatory purpose of the Permit may subject the Permittee to criminal enforcement pursuant to La. R.S. 30:2025.

10. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Clean Water Act.

11. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Clean Water Act.

12. Severability

If any provision of these rules and regulations, or the application thereof, is held to be invalid, the remaining provisions of these rules and regulations shall not be affected, so long as they can be given effect without the invalid provision. To this end, the provisions of these rules and regulations are declared to be severable.

13. Dilution

A permittee shall not achieve any effluent concentration by dilution unless specifically authorized in the permit. A permittee shall not increase the use of process water or cooling water or otherwise attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve permit limitations or water quality.

SECTION B. PROPER OPERATION AND MAINTENANCE1. Need to Halt or Reduce not a Defense

~~It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.~~

2. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment. The permittee shall also take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with the permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

3. Proper Operation and Maintenance

- a. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.
- b. The permittee shall provide an adequate operating staff which is duly qualified to carry out operation, maintenance and other functions necessary to ensure compliance with the conditions of this permit.

4. Bypass of Treatment Facilities

- a. Bypass. The intentional diversion of waste streams from any portion of a treatment facility.
- b. Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Section B.4.c. and 4.d of these standard conditions.
- c. Notice
 - (1) Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice to the Office of Environmental Services, Water and Waste Permits Division, if possible at least ten days before the date of the bypass.
 - (2) Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in LAC 33:IX.2701.L.6, (24-hour notice) and Section D.6.e. of these standard conditions.
- d. Prohibition of bypass
 - (1) Bypass is prohibited, and the state administrative authority may take enforcement action against a permittee for bypass, unless:
 - (a) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

(b) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and,

(c) The permittee submitted notices as required by Section B.4.c of these standard conditions.

(2) The state administrative authority may approve an anticipated bypass after considering its adverse effects, if the state administrative authority determines that it will meet the three conditions listed in Section B.4.d(1) of these standard conditions.

5. Upset Conditions

a. Upset. An exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

b. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the requirements of Section B.5.c. are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.

c. Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

(1) An upset occurred and that the permittee can identify the cause(s) of the upset;

(2) The permitted facility was at the time being properly operated; and

(3) The permittee submitted notice of the upset as required by LAC 33:IX.2701.L.6.b.ii. and Section D.6.e.(2) of these standard conditions; and

(4) The permittee complied with any remedial measures required by Section B.2 of these standard conditions.

d. Burden of proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

6. Removed Substances

Solids, sewage sludges, filter backwash, or other pollutants removed in the course of treatment or wastewater control shall be properly disposed of in a manner such as to prevent any pollutant from such materials from entering waters of the state and in accordance with environmental regulations.

7. Percent Removal

For publicly owned treatment works, the 30-day average percent removal for Biochemical Oxygen Demand and Total Suspended Solids shall not be less than 85 percent in accordance with LAC 33:IX.5905.A.3. and B.3.

SECTION C. MONITORING AND RECORDS1. Inspection and Entry

The permittee shall allow the state administrative authority, or an authorized representative (including an authorized contractor acting as a representative of the Administrator), upon the presentation of credentials and other documents as may be required by the law to:

- a. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit.

~~Enter upon the permittee's premises where a discharge source is or might be located or in which monitoring equipment or records required by a permit are kept for inspection or sampling purposes.~~ Most inspections will be unannounced and should be allowed to begin immediately, but in no case shall begin more than thirty (30) minutes after the time the inspector presents his/her credentials and announces the purpose(s) of the inspection. Delay in excess of thirty (30) minutes shall constitute a violation of this permit. However, additional time can be granted if the inspector or the Administrative Authority determines that the circumstances warrant such action; and

- b. Have access to and copy, at reasonable times, any records that the department or its authorized representative determines are necessary for the enforcement of this permit. For records maintained in either a central or private office that is open only during normal office hours and is closed at the time of inspection, the records shall be made available as soon as the office is open, but in no case later than the close of business the next working day;
- c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
- d. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act or the Louisiana Environmental Quality Act, any substances or parameters at any location.

e. Sample Collection

- (1) When the inspector announces that samples will be collected, the permittee will be given an additional thirty (30) minutes to prepare containers in order to collect duplicates. If the permittee cannot obtain and prepare sample containers within this time, he is considered to have waived his right to collect duplicate samples and the sampling will proceed immediately. Further delay on the part of the permittee in allowing initiation of the sampling will constitute a violation of this permit.
- (2) At the discretion of the administrative authority, sample collection shall proceed immediately (without the additional 30 minutes described in Section C.1.a. above) and the inspector shall supply the permittee with a duplicate sample.
- f. It shall be the responsibility of the permittee to ensure that a facility representative familiar with provisions of its wastewater discharge permit, including any other conditions or limitations, be available either by phone or in person at the facility during all hours of operation. The absence of such personnel on-site who are familiar with the permit shall not be grounds for delaying the initiation of an inspection except in situations as described in Section C.1.b. of these standard conditions. The permittee shall be responsible for providing witnesses/escorts during inspections. Inspectors shall abide by all company safety rules and shall be equipped with standard safety equipment (hard hat, safety shoes, safety glasses) normally required by industrial facilities.
- g. Upon written request copies of field notes, drawings, etc., taken by department personnel during an inspection shall be provided to the permittee after the final inspection report has been completed.

2. Representative Sampling

Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. All samples shall be taken at the outfall location(s) indicated in the permit. The state administrative authority shall be notified prior to any changes in the outfall location(s). Any changes in the outfall location(s) will be subject to modification, revocation and reissuance in accordance with LAC 33:IX.2903.

3. Retention of Records

Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 CFR 503), the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report, or application. This period may be extended by request of the state administrative authority at any time.

4. Record Contents

Records of monitoring information shall include:

- a. The date, exact place, and time of sampling or measurements;
- b. The individual(s) who performed the sampling or measurements;
- c. The date(s) analyses were performed;
- d. The time(s) analyses were begun and ended
- e. The individual(s) who performed the analyses;
- f. The analytical techniques or methods used;
- g. The results of such analyses; and
- h. The results of all quality control procedures.

5. Monitoring Procedures

- a. Monitoring results must be conducted according to test procedures approved under 40 CFR Part 136 (See LAC 33:IX.4901) or, in the case of sludge use or disposal, approved under 40 CFR part 136 (See LAC 33:IX.4901) unless otherwise specified in 40 CFR part 503, unless other test procedures have been specified in this permit. This includes procedures contained in the latest EPA approved edition of the following publications:

- (1) "Standard Methods for the Examination of Water and Waste Water". This publication is available from the American Public Health Association, Publication Sales, P. O. Box 753, Waldorf, MD 20604-0573, Phone number (301) 893-1894, Fax number (301) 843-0159.
- (2) "Annual Book of Standards, Vols 1101-1103, Water I, Water II, and Atmospheric Analysis". This publication is available from the American Society for Testing Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959, Phone number (610) 832-9500.
- (3) "Methods for Chemical Analysis of Water and Wastes, Revised, March 1983," U.S. Environmental Protection Agency, Analytical Quality Control Laboratory, Cincinnati, Ohio. This publication is available from the National Technical Information Service (NTIS), Springfield, VA 22161, Phone number (800) 553-6847. Order by NTIS publication number PB-84-128677.

- b. The permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instruments at intervals frequent enough to insure accuracy of measurements and shall maintain appropriate records of such activities.
- c. An adequate analytical quality control program, including the analyses of sufficient standards, spikes, and duplicate samples to insure the accuracy of all required analytical results shall be maintained by the permittee or designated commercial laboratory. General sampling protocol shall follow guidelines established in the "Handbook for Sampling and Sample Preservation of Water and Wastewater, 1982" U.S. Environmental Protection Agency. This publication is available from the National Technical Information Service (NTIS), Springfield, VA 22161, Phone number (800) 553-6847. Order by NTIS

publication number PB-83-124503. General laboratory procedures including glassware cleaning, etc. can be found in the "Handbook for Analytical Quality Control in Water and Wastewater Laboratories, 1979," U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory. This publication is available from the Environmental Protection Agency, Phone number (513) 569-7562. Order by EPA publication number EPA-600/4-79-019.

6. Flow Measurements

Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated, and maintained to insure that the accuracy of the measurements are consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than 10% from true discharge rates throughout the range of expected discharge volumes. Guidance in selection, installation, calibration and operation of acceptable flow measurement devices can be obtained from the following references:

- a. "A Guide to Methods and Standards for the Measurement of Water Flow, 1975," U.S. Department of Commerce, National Bureau of Standards. This publication is available from the National Technical Information Service (NTIS), Springfield, VA 22161, Phone number (800) 553-6847. Order by NTIS publication number COM-75-10683.
- b. "Flow Measurement in Open Channels and Closed Conduits, Volumes 1 and 2," U.S. Department of Commerce, National Bureau of Standards. This publication is available from the National Technical Service (NTIS), Springfield, VA, 22161, Phone number (800) 553-6847. Order by NTIS publication number PB-273 535.
- c. "NPDES Compliance Flow Measurement Manual," U.S. Environmental Protection Agency, Office of Water Enforcement. This publication is available from the National Technical Information Service (NTIS), Springfield, VA 22161, Phone number (800) 553-6847. Order by NTIS publication number PB-82-131178.

7. Prohibition for Tampering: Penalties

- a. LA R.S. 30:2025 provides for punishment of any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit.
- b. LA R.S. 30:2076.2 provides for penalties for any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or non compliance.

8. Additional Monitoring by the Permittee

If the Permittee monitors any pollutant more frequently than required by the permit using test procedures approved under 40 CFR Part 136 (See LAC 33:IX.4901) or, in the case of sludge use and disposal, approved under 40 CFR part 136 (See LAC 33:IX.4901) unless otherwise specified in 40 CFR part 503, or as specified in the permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or sludge reporting form specified by the state administrative authority.

9. Averaging of Measurements

Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the state administrative authority in the permit.

10. Laboratory Accreditation

- a. LAC 33:I.Subpart 3, Chapters 45-59 provide requirements for an accreditation program specifically applicable to commercial laboratories, wherever located, that provide chemical analyses, analytical results, or other test data to the department, by contract or by agreement, and the data is:

- (1) Submitted on behalf of any facility, as defined in R.S.30:2004;
- (2) Required as part of any permit application;

- (3) Required by order of the department;
- (4) Required to be included on any monitoring reports submitted to the department;
- (5) Required to be submitted by contractor
- (6) Otherwise required by department regulations.

- b. The department laboratory accreditation program is designed to ensure the accuracy, precision, and reliability of the data generated, as well as the use of department-approved methodologies in generation of that data. Laboratory data generated by commercial environmental laboratories that are not accredited under these regulations will not be accepted by the department. Retesting of analysis will be required by an accredited commercial laboratory.

Where retesting of effluent is not possible (i.e. data reported on DMRs for prior month's sampling), the data generated will be considered invalid and in violation of the LPDES permit.

- c. Regulations on the Environmental Laboratory Accreditation Program and a list of labs that have applied for accreditation, are available on the department website located at:

<http://www.deq.state.la.us/laboratory/index.htm>.

Questions concerning the program may be directed to (225) 765-0582.

SECTION D. REPORTING REQUIREMENTS

1. Facility Changes

The permittee shall give notice to the state administrative authority as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

- a. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR 122.29(b); or
- b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under LAC 33:IX.2703.A.1.
- c. For Municipal Permits. Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to Section 301, or 306 of the CWA if it were directly discharging those pollutants; and any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit. In no case are any new connections, increased flows, or significant changes in influent quality permitted that will cause violation of the effluent limitations specified herein.

2. Anticipated Noncompliance

The permittee shall give advance notice to the state administrative authority of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

3. Transfers

This permit is not transferable to any person except after notice to the state administrative authority. The state administrative authority may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Clean Water Act or the Louisiana Environmental Quality Act. (See LAC 33:IX.2901; in some cases, modification or revocation and reissuance is mandatory.)

- a. Transfers by modification. Except as provided in LAC 33: IX.2901.B, a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued (under LAC 33:IX.2903. A.2.b), or a minor modification made (under LAC 33:IX.2905) to identify the

new permittee and incorporate such other requirements as may be necessary under the Clean Water Act and the Louisiana Environmental Quality Act.

- b. Automatic transfers. As an alternative to transfers under LAC 33:IX.2901.A, any LPDES permit may be automatically transferred to a new permittee if:

- (1) The current permittee notifies the state administrative authority at least 30 days in advance of the proposed transfer date in Section D.3.b.(2) below;
- (2) The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them;
- (3) The state administrative authority does not notify the existing permittee and the proposed new permittee of his or her intent to modify or revoke and reissue the permit. A modification under this subsection may also be a minor modification under LAC 33:IX.2905. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Section D.3.b.(2) of these standard conditions.

4. Monitoring Reports

Monitoring results shall be reported at the intervals and in the form specified in Part I or Part II of this permit.

The permittee shall submit properly completed Discharge Monitoring Reports (DMRs) on the form specified in the permit. Preprinted DMRs are provided to majors/92-500's and other designated facilities. Please contact the Permit Compliance Unit concerning preprints. Self-generated DMRs must be pre-approved by the Permit Compliance Unit prior to submittal. Self-generated DMRs are approved on an individual basis. Requests for approval of self-generated DMRs should be submitted to:

Supervisor, Permit Compliance Unit
Office of Environmental Compliance
Post Office Box 4312
Baton Rouge, LA 70821-4312

Copies of blank DMR templates, plus instructions for completing them, and EPA's LPDES Reporting Handbook are available at the department website located at:

<http://www.deq.state.la.us/enforcement/index.htm>

5. Compliance Schedules

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

6. Requirements for Notification

a. Emergency Notification

As required by LAC 33:I.3915, in the event of an unauthorized discharge that does cause an emergency condition, the discharger shall notify the hotline (DPS 24-hour Louisiana Emergency Hazardous Materials Hotline) by telephone at (225) 925-6595 (collect calls accepted 24 hours a day) immediately (a reasonable period of time after taking prompt measures to determine the nature, quantity, and potential off-site impact of a release, considering the exigency of the circumstances), but in no case later than one hour after learning of the discharge. (An emergency condition is any condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water, or air environment, or cause severe damage to property.) Notification required by this section will be made regardless of the amount of discharge. Prompt Notification Procedures are listed in Section D.6.c. of these standard conditions.

A written report shall be provided within seven calendar days after the notification. The report shall contain the information listed in Section D.6.d. of these standard conditions and any additional information in LAC 33:1.3925.B.

b. Prompt Notification

As required by LAC 33:1.3917, in the event of an unauthorized discharge that exceeds a reportable quantity specified in LAC 33:1.Subchapter E, but does not cause an emergency condition, the discharger shall promptly notify the department within 24 hours after learning of the discharge. Notification should be made to the Office of Environmental Compliance, Surveillance Division Single Point of Contact (SPOC) in accordance with LAC 33:1.3923.

In accordance with LAC 33:1.3923, prompt notification shall be provided within a time frame not to exceed 24 hours and shall be given to the Office of Environmental Compliance, Surveillance Division Single Point of Contact (SPOC) as follows:

- (1) by the Online Incident Reporting screens found at <http://www.deq.louisiana.gov/surveillance/irf/forms/>; or
 - (2) by e-mail utilizing the Incident Report Form and instructions found at <http://www.deq.louisiana.gov/surveillance/>; or
 - (3) by telephone at (225) 219-3640 during office hours, or (225) 342-1234 after hours and on weekends and holidays.
- c. Content of Prompt Notifications. The following guidelines will be utilized as appropriate, based on the conditions and circumstances surrounding any unauthorized discharge, to provide relevant information regarding the nature of the discharge:
- (1) the name of the person making the notification and the telephone number where any return calls from response agencies can be placed;
 - (2) the name and location of the facility or site where the unauthorized discharge is imminent or has occurred, using common landmarks. In the event of an incident involving transport, include the name and address of the transporter and generator;
 - (3) the date and time the incident began and ended, or the estimated time of continuation if the discharge is continuing;
 - (4) the extent of any injuries and identification of any known personnel hazards that response agencies may face;
 - (5) the common or scientific chemical name, the U.S. Department of Transportation hazard classification, and the best estimate of amounts of any and all discharged pollutants;
 - (6) a brief description of the incident sufficient to allow response agencies to formulate their level and extent of response activity.
- d. Written Notification Procedures. Written reports for any unauthorized discharge that requires notification under Section D.6.a. or 6.b., or shall be submitted by the discharger to the Office of Environmental Compliance, Surveillance Division SPOC in accordance with LAC 33:IX.3925 within seven calendar days after the notification required by D.6.a. or 6.b., unless otherwise provided for in a valid permit or other department regulation. Written notification reports shall include, but not be limited to, the following information:
- (1) the name, address, telephone number, Agency Interest (AI) number (number assigned by the department) if applicable, and any other applicable identification numbers of the person, company, or other party who is filing the written report, and specific identification that the report is the written follow-up report required by this section;

- (2) the time and date of prompt notification, the state official contacted when reporting, the name of person making that notification, and identification of the site or facility, vessel, transport vehicle, or storage area from which the unauthorized discharge occurred;
- (3) date(s), time(s), and duration of the unauthorized discharge and, if not corrected, the anticipated time it is expected to continue;
- (4) details of the circumstances (unauthorized discharge description and root cause) and events leading to any unauthorized discharge, including incidents of loss of sources of radiation, and if the release point is subject to a permit:
 - (a) the current permitted limit for the pollutant(s) released; and
 - (b) the permitted release point/outfall ID.
- (5) the common or scientific chemical name of each specific pollutant that was released as the result of an unauthorized discharge, including the CAS number and U.S. Department of Transportation hazard classification, and the best estimate of amounts of any and all released pollutants (total amount of each compound expressed in pounds, including calculations);
- (6) a statement of the actual or probable fate or disposition of the pollutant or source of radiation and what off-site impact resulted;
- (7) remedial actions taken, or to be taken, to stop unauthorized discharges or to recover pollutants or sources of radiation.
- (8) Written notification reports shall be submitted to the Office of Environmental Compliance, Surveillance Division SPOC by mail or fax. The transmittal envelope and report or fax cover page and report should be clearly marked **"UNAUTHORIZED DISCHARGE NOTIFICATION REPORT."**

Please see LAC 33:IX.3925.B for additional written notification procedures.

- e. Twenty-four Hour Reporting. The permittee shall report any noncompliance which may endanger human health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and; steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. The following shall be included as information which must be reported within 24 hours:

- (1) Any unanticipated bypass which exceeds any effluent limitation in the permit (see LAC 33:IX.2701.M.3.b.);
- (2) Any upset which exceeds any effluent limitation in the permit;
- (3) Violation of a maximum daily discharge limitation for any of the pollutants listed by the state administrative authority in Part II of the permit to be reported within 24 hours (LAC 33:IX.2707.G.).

7. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under Section D.4., 5., and 6., at the time monitoring reports are submitted. The reports shall contain the information listed in Section D.6.e.

8. Other Information

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the state administrative authority, it shall promptly submit such facts or information.

9. Discharges of Toxic Substances

In addition to the reporting requirements under Section D.1-8, all existing manufacturing, commercial, mining, and silvicultural dischargers must notify the Office of Environmental Services, Water and Waste Permits Division as soon as they know or have reason to believe:

- a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant:
 - i. listed at LAC 33:IX.7107, Tables II and III (excluding Total Phenols) which is not limited in the permit, if that discharge will exceed the highest of the following notification levels:
 - (1) One hundred micrograms per liter (100 µg/L);
 - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,4 -dinitro-phenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - (3) Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with LAC33:IX.2501.G.7; or
 - (4) The level established by the state administrative authority in accordance with LAC 33:IX.2707.F.; or
 - ii. which exceeds the reportable quantity levels for pollutants at LAC 33:I. Subchapter E.
- b. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant:
 - i. listed at LAC 33:IX.7107, Tables II and III (excluding Total Phenols) which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - (1) Five hundred micrograms per liter (500 µg/L);
 - (2) One milligram per liter (1 mg/L) for antimony;
 - (3) Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with LAC 33:IX.2501.G.7; or
 - (4) The level established by the state administrative authority in accordance with LAC 33:IX.2707.F.; or
 - ii. which exceeds the reportable quantity levels for pollutants at LAC 33:I. Subchapter E.

10. Signatory Requirements

All applications, reports, or information submitted to the state administrative authority shall be signed and certified.

- a. All permit applications shall be signed as follows:

- (1) For a corporation - by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:
 - (a) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions for the corporation; or,
 - (b) The manager of one or more manufacturing, production, or operating facilities, provided: the manager is authorized to make management decisions that govern the operation of the regulated facility, including having the explicit or implicit duty of making major capital investment recommendations and initiating and directing other comprehensive measures to ensure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and

accurate information for permit application requirements; and the authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

NOTE: DEQ does not require specific assignments or delegations of authority to responsible corporate officers identified in Section D.10.a.(1)(a). The agency will presume that these responsible corporate officers have the requisite authority to sign permit applications unless the corporation has notified the state administrative authority to the contrary. Corporate procedures governing authority to sign permit applications may provide for assignment or delegation to applicable corporate positions under Section D.10.a.(1)(b), rather than to specific individuals.

- (2) For a partnership or sole proprietorship - by a general partner or the proprietor, respectively; or
 - (3) For a municipality, state, federal, or other public agency - by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a federal agency includes:
 - (a) The chief executive officer of the agency, or
 - (b) A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).
- b. All reports required by permits and other information requested by the state administrative authority shall be signed by a person described in Section D.10.a., or by a duly authorized representative of that person. A person is a duly authorized representative only if:
- (1) The authorization is made in writing by a person described in Section D.10.a. of these standard conditions;
 - (2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company, (a duly authorized representative may thus be either a named individual or an individual occupying a named position; and,
 - (3) The written authorization is submitted to the state administrative authority.
- c. Changes to authorization. If an authorization under Section D.10.b. is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Section D.10.b. must be submitted to the state administrative authority prior to or together with any reports, information, or applications to be signed by an authorized representative.
- d. Certification. Any person signing a document under Section D.10. a. or b. above, shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

11. Availability of Reports

All recorded information (completed permit application forms, fact sheets, draft permits, or any public document) not classified as confidential information under R.S. 30:2030(A) and 30:2074(D) and designated as such in accordance with these regulations (LAC 33:IX.2323 and LAC 33:IX.6503) shall be made available to the public for inspection and copying during normal working hours in accordance with the Public Records Act, R.S. 44:1 et seq.

Claims of confidentiality for the following will be denied:

- a. The name and address of any permit applicant or permittee;
- b. Permit applications, permits, and effluent data.
- c. Information required by LPDES application forms provided by the state administrative authority under LAC 33:IX.2501 may not be claimed confidential. This includes information submitted on the forms themselves and any attachments used to supply information required by the forms.

SECTION E. PENALTIES FOR VIOLATIONS OF PERMIT CONDITION

1. Criminal

a. Negligent Violations

The Louisiana Revised Statutes LA. R. S. 30:2076.2 provides that any person who negligently violates any provision of the LPDES, or any order issued by the secretary under the LPDES, or any permit condition or limitation implementing any such provision in a permit issued under the LPDES by the secretary, or any requirement imposed in a pretreatment program approved under the LPDES is subject to a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than 1 year, or both. If a conviction of a person is for a violation committed after a first conviction of such person, he shall be subject to a fine of not more than \$50,000 per day of violation, or imprisonment of not more than two years, or both.

b. Knowing Violations

The Louisiana Revised Statutes LA. R. S. 30:2076.2 provides that any person who knowingly violates any provision of the LPDES, or any permit condition or limitation implementing any such provisions in a permit issued under the LPDES, or any requirement imposed in a pretreatment program approved under the LPDES is subject to a fine of not less than \$5,000 nor more than \$50,000 per day of violation, or imprisonment for not more than 3 years, or both. If a conviction of a person is for a violation committed after a first conviction of such person, he shall be subject to a fine of not more than \$100,000 per day of violation, or imprisonment of not more than six years, or both.

c. Knowing Endangerment

The Louisiana Revised Statutes LA. R. S. 30:2076.2 provides that any person who knowingly violates any provision of the LPDES, or any order issued by the secretary under the LPDES, or any permit condition or limitation implementing any of such provisions in a permit issued under the LPDES by the secretary, and who knows at that time that he thereby places another person in imminent danger of death or serious bodily injury, shall, upon conviction, be subject to a fine of not more than \$250,000, or by imprisonment for not more than 15 years, or both. A person which is an organization shall, upon conviction of violating this Paragraph, be subject to a fine of not more than one million dollars. If a conviction of a person is for a violation committed after a first conviction of such person under this Paragraph, the maximum punishment shall be doubled with respect to both fine and imprisonment.

d. False Statements

The Louisiana Revised Statutes LA. R. S. 30:2076.2 provides that any person who knowingly makes any false material statement, representation, or certification in any application, record, report, plan, or other document filed or required to be maintained under the LPDES or who knowingly falsifies, tampers with, or renders inaccurate, any monitoring device or method required to be maintained under the LPDES, shall, upon conviction, be subject to a fine of not more than \$10,000, or imprisonment for not more than 2 years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this Subsection, he shall be subject to a fine of not more than \$20,000 per day of violation, or imprisonment of not more than 4 years, or both.

2. Civil Penalties

The Louisiana Revised Statutes LA. R. S. 30:2025 provides that any person found to be in violation of any requirement of this Subtitle may be liable for a civil penalty, to be assessed by the secretary, an assistant secretary, or the court, of not more than the cost to the state of any response action made necessary by

such violation which is not voluntarily paid by the violator, and a penalty of not more than \$32,500 for each day of violation. However, when any such violation is done intentionally, willfully, or knowingly, or results in a discharge or disposal which causes irreparable or severe damage to the environment or if the substance discharged is one which endangers human life or health, such person may be liable for an additional penalty of not more than one million dollars.

(PLEASE NOTE: These penalties are listed in their entirety in Subtitle II of Title 30 of the Louisiana Revised Statutes.)

SECTION F. DEFINITIONS

All definitions contained in Section 502 of the Clean Water Act shall apply to this permit and are incorporated herein by reference. Unless otherwise specified in this permit, additional definitions of words or phrases used in this permit are as follows:

1. Clean Water Act (CWA) means the Clean Water Act (formerly referred to as the Federal Water Pollution Control Act or the Federal Water Pollution Control Act Amendments of 1972) Pub.L.92-500, as amended by Pub.L. 95-217, Pub.L. 95-576, Pub.L. 96-483 and Pub.L. 97-117, 33 U.S.C. 1251 et. seq.).
2. Accreditation means the formal recognition by the department of a laboratory's competence wherein specific tests or types of tests can be accurately and successfully performed in compliance with all minimum requirements set forth in the regulations regarding laboratory accreditation.
3. Administrator means the Administrator of the U.S. Environmental Protection Agency, or an authorized representative.
4. Applicable Standards and Limitations means all state, interstate and federal standards and limitations to which a discharge is subject under the Clean Water Act, including, effluent limitations, water quality standards of performance, toxic effluent standards or prohibitions, best management practices, and pretreatment standards under Sections 301, 302, 303, 304, 306, 307, 308 and 403.
5. Applicable water quality standards means all water quality standards to which a discharge is subject under the Clean Water Act.
6. Commercial Laboratory means any laboratory, wherever located, that performs analyses or tests for third parties for a fee or other compensation and provides chemical analyses, analytical results, or other test data to the department. The term commercial laboratory does not include laboratories accredited by the Louisiana Department of Health and Hospitals in accordance with R.S.49:1001 et seq.
7. Daily Discharge means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in terms of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the sampling day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the average measurement of the pollutant over the sampling day. Daily discharge determination of concentration made using a composite sample shall be the concentration of the composite sample.
8. Daily Maximum discharge limitation means the highest allowable "daily discharge".
9. Director means the U.S. Environmental Protection Agency Regional Administrator, or the state administrative authority, or an authorized representative.
10. Domestic septage means either liquid or solid material removed from a septic tank, cesspool, portable toilet, Type III marine sanitation device, or similar treatment works that receives only domestic sewage. Domestic septage does not include liquid or solid material removed from a septic tank, cesspool, or similar treatment works that receives either commercial wastewater or industrial wastewater and does not include grease removed from grease trap at a restaurant.

11. Domestic sewage means waste and wastewater from humans, or household operations that is discharged to or otherwise enters a treatment works.
12. Environmental Protection Agency or (EPA) means the U.S. Environmental Protection Agency.
13. Grab sample means an individual sample collected over a period of time not exceeding 15 minutes, unless more time is needed to collect an adequate sample, and is representative of the discharge.
14. Industrial user means a nondomestic discharger, as identified in 40 CFR 403, introducing pollutants to a publicly owned treatment works.
15. LEQA means the Louisiana Environmental Quality Act.
16. Louisiana Pollutant Discharge Elimination System (LPDES) means those portions of the Louisiana Environmental Quality Act and the Louisiana Water Control Law and all regulations promulgated under their authority which are deemed equivalent to the National Pollutant Discharge Elimination System (NPDES) under the Clean Water Act in accordance with Section 402 of the Clean Water Act and all applicable federal regulations.
17. Monthly Average (also known as Daily Average), other than for fecal coliform bacteria, discharge limitations are calculated as the sum of all "daily discharge(s)" measured during a calendar month divided by the number of "daily discharge(s)" measured during that month. When the permit establishes monthly average concentration effluent limitations or conditions, and flow is measured as continuous record or with a totalizer, the monthly average concentration means the arithmetic average (weighted by flow) of all "daily discharge(s)" of concentration determined during the calendar month where C = daily discharge concentration, F = daily flow and n = number of daily samples; monthly average discharge =

$$\frac{C_1F_1 + C_2F_2 + \dots + C_nF_n}{F_1 + F_2 + \dots + F_n}$$

When the permit establishes monthly average concentration effluent limitations or conditions, and the flow is not measured as a continuous record, then the monthly average concentration means the arithmetic average of all "daily discharge(s)" of concentration determined during the calendar month.

The monthly average for fecal coliform bacteria is the geometric mean of the values for all effluent samples collected during a calendar month.

18. National Pollutant Discharge Elimination System means the national program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits, and imposing and enforcing pretreatment requirements, under Sections 307, 318, 402, and 405 of the Clean Water Act.
19. Severe property damage means substantial physical damage to property, damage to the treatment facilities that causes them to become inoperable, or substantial and permanent loss of natural resources that can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
20. Sewage sludge means a solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in a treatment works. Sewage sludge includes, but is not limited to, domestic septage; scum or solids removed in primary, secondary, or advanced wastewater treatment processes; portable toilet pumpings, type III marine sanitation device pumpings (33 CFR part 159); and a material derived from sewage sludge. Sewage sludge does not include ash generated during the firing of sewage sludge in a sewage sludge incinerator or grit and screenings generated during preliminary treatment of domestic sewage in a treatment works.
21. Treatment works means any devices and systems used in the storage, treatment, recycling and reclamation of municipal sewage and industrial wastes of a liquid nature to implement Section 201 of the Clean Water Act, or necessary to recycle or reuse water at the most economical cost over the estimated life of the works,

including intercepting sewers, sewage collection systems, pumping, power and other equipment, and their appurtenances, extension, improvement, remodeling, additions, and alterations thereof. (See Part 212 of the Clean Water Act)

22. For fecal coliform bacteria, a sample consists of one effluent grab portion collected during a 24-hour period at peak loads.
23. The term MGD shall mean million gallons per day.
24. The term mg/L shall mean milligrams per liter or parts per million (ppm).
25. The term µg/L shall mean micrograms per liter or parts per billion (ppb).
26. The term ng/L shall mean nanograms per liter or parts per trillion (ppt).
27. Weekly average, (also known as 7-day average), other than for fecal coliform bacteria, is the highest allowable arithmetic mean of the daily discharges over a calendar week, calculated as the sum of all "daily discharge(s)" measured during a calendar week divided by the number of "daily discharge(s)" measured during that week. When the permit establishes weekly average concentration effluent limitations or conditions, and flow is measured as continuous record or with a totalizer, the weekly average concentration means the arithmetic average (weighted by flow) of all "daily discharge(s)" of concentration determined during the calendar week where C = daily discharge concentration, F = daily flow and n = number of daily samples; weekly average discharge =

$$\frac{C_1F_1 + C_2F_2 + \dots + C_nF_n}{F_1 + F_2 + \dots + F_n}$$

When the permit establishes weekly average concentration effluent limitations or conditions, and the flow is not measured as a continuous record, then the weekly average concentration means the arithmetic average of all "daily discharge(s)" of concentration determined during the calendar week.

The weekly average for fecal coliform bacteria is the geometric mean of the values for all effluent samples collected during a calendar week.

28. Sanitary Wastewater Term(s):

- a. 3-hour composite sample consists of three effluent portions collected no closer together than one hour (with the first portion collected no earlier than 10:00 a.m.) over the 3-hour period and composited according to flow, or a sample continuously collected in proportion to flow over the 3-hour period.
- b. 6-hour composite sample consists of six effluent portions collected no closer together than one hour (with the first portion collected no earlier than 10:00 a.m.) over the 6-hour period and composited according to flow, or a sample continuously collected in proportion to flow over the 6-hour period.
- c. 12-hour composite sample consists of 12 effluent portions collected no closer together than one hour over the 12-hour period and composited according to flow, or a sample continuously collected in proportion to flow over the 12-hour period. The daily sampling intervals shall include the highest flow periods.
- d. 24-hour composite sample consists of a minimum of 12 effluent portions collected at equal time intervals over the 24-hour period and combined proportional to flow or a sample continuously collected in proportion to flow over the 24-hour period.